SONY

3-084-917-**11** (1) GB

DVD Player/ Video Cassette Recorder

Operating Instructions

SLV-D910N/R

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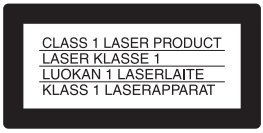
WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

Mains lead must only be changed at a qualified service shop.



This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.

CAUTION

The use of optical instruments with this product will increase eye hazard. As the laser beam used in this DVD player/ Video Cassette Recorder is harmful to eyes, do not attempt to disassemble the cabinet.
Refer servicing to qualified personnel only.

Precautions

Safety

- This unit operates on 220 – 240 V AC, 50 Hz. Check that the unit's operating voltage is identical with your local power supply.
- To prevent fire or shock hazard, do not place objects filled with liquids, such as vases, on the apparatus.
- The unit is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the unit itself has been turned off.

Installing

- Do not install the unit in a confined space such as a book or similar unit.
- Do not install the unit in an inclined position. It is designed to be operated in a horizontal position only.
- Keep the unit and discs away from equipment with strong magnets, such as microwave ovens, or large loudspeakers.
- Do not place heavy objects on the unit.
- Do not place the unit on surfaces (rugs, blankets, etc.) or near materials (curtains, draperies) that may block the ventilation slots.

Compatible colour systems

This VCR is designed to record using the PAL (B/G or D/K) or MESECAM (B/G or D/K) colour system and play back using the PAL (B/G or D/K) or MESECAM (B/G or D/K) and NTSC 4.43 colour systems. Recording of video sources based on other colour systems cannot be guaranteed.

Welcome!

Thank you for purchasing this Sony DVD Player/Video Cassette Recorder. Before operating this player, please read this manual thoroughly and retain it for future reference.

Caution

For use of the VCR

Television programmes, films, video tapes and other materials may be copyrighted. Unauthorized recording of such material may be contrary to the provisions of the copyright laws. Also, use of this recorder with cable television transmission may require authorization from the cable television transmitter and/or programme owner.

For use of the DVD player

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents, other intellectual property rights owned by Macrovision Corporation, and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

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About this manual

- The meaning of the icons used in this manual is described below:

Icon	Meaning
DVD	Functions available for DVD VIDEOs and DVD-RWs/ DVD-Rs in video mode or DVD+RWs/DVD+Rs
VCD	Functions available for VIDEO CDs, Super VCDs or CD-Rs/ CD-RWs in video CD format or Super VCD format
DATA-CD	Functions available for DATA CDs (CD-ROMs/CD-Rs/CD-RWs containing MP3* audio tracks or JPEG files)
CD	Functions available for music CDs or CD-Rs/CD-RWs in music CD format
VHS	Functions available for VHS VIDEOs

* MP3 (MPEG 1 Audio Layer 3) is a standard format defined by ISO/MPEG which compresses audio data.

This player can play the following discs

Format of discs	
DVD VIDEO	DVD VIDEO
VIDEO CD	COMPACT disc DIGITAL VIDEO
Music CD	COMPACT disc DIGITAL AUDIO

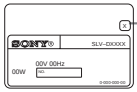
The “DVD VIDEO” logo is a trademark.

Region code

Your player has a region code printed on the back of the unit and only will play DVD VIDEO discs (playback only) labelled with identical region codes. This system is used to protect copyrights.

DVDs labelled will also play on this player.

If you try to play any other DVD, the message “Playback prohibited by area limitations.” will appear on the TV screen. Depending on the DVD, no region code indication may be labelled even though playing the DVD is prohibited by area restrictions.



Example of discs that the player cannot play

The player cannot play the following discs:

- All CD-ROMs (including PHOTO CDs)/ CD-Rs/CD-RWs other than those recorded in the following formats:
  - music CD format
  - video CD format
  - MP3 or JPEG format that conforms to ISO9660* Level 1/Level 2, or its extended format, Joliet
- Data part of CD-Extras
- DVD-RWs in VR mode
- DVD-ROMs
- DVD Audio discs
- HD layer on Super Audio CDs

* A logical format of files and folders on CD-ROMs, defined by ISO (International Standard Organization).

Also, the player cannot play the following discs:

- A DVD with a different region code.
- A disc that has a non-standard shape (e.g., card, heart).
- A disc with paper or stickers on it.
- A disc that has the adhesive of cellophane tape or a sticker still left on it.

Note

Some DVD-RWs/DVD-Rs, DVD+RWs/DVD+Rs or CD-Rs/CD-RWs cannot be played on this player due to the recording quality or physical condition of the disc, or the characteristics of the recording device. Furthermore, the disc will not play if it has not been correctly finalized. For more information, see the operating instructions for the recording device. Note that discs created in the Packet Write format cannot be played.

Note on playback operations of DVDs and VIDEO CDs

Some playback operations of DVDs and VIDEO CDs may be intentionally set by software producers. Since this player plays DVDs and VIDEO CDs according to the disc contents the software producers designed, some playback features may not be available. Also, refer to the instructions supplied with the DVDs or VIDEO CDs.

Music discs encoded with copyright protection technologies

This product is designed to playback discs that conform to the Compact Disc (CD) standard. Recently, various music discs encoded with copyright protection technologies are marketed by some record companies. Please be aware that among those discs, there are some that do not conform to the CD standard and may not be playable by this product.

Notes about discs

- To keep the disc clean, handle the disc by its edge. Do not touch the surface.

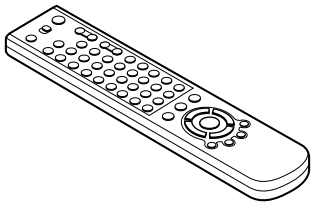
- Do not expose the disc to direct sunlight or heat sources such as hot air ducts, or leave it in a car parked in direct sunlight as the temperature may rise considerably inside the car.
- After playing, store the disc in its case.
- Clean the disc with a cleaning cloth. Wipe the disc from the center out.

- Do not use solvents such as benzine, thinner, commercially available cleaners, or anti-static spray intended for vinyl LPs.

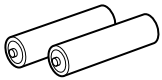
Step 1 : Unpacking

Check that you have received the following items with the DVD-VCR:

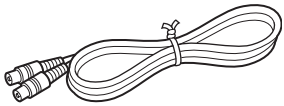
- Remote commander



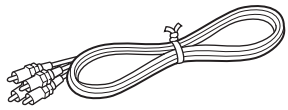
- R6 (size AA) batteries



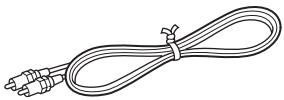
- Aerial cable



- Audio cord
  (pinplug ×2 ⟷ pinplug ×2)



- Video cord
  (pinplug ×1 ⟷ pinplug ×1)



Note

- The supplied remote commander is for the exclusive use of this DVD-VCR.

Check your model name

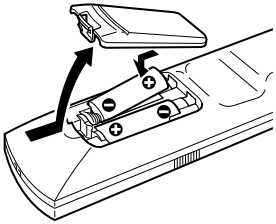
The instructions in this manual are for the 2 models: SLV-D910N and SLV-D910R. Check your model name by looking at the rear panel of your DVD-VCR.
SLV-D910N is the model used for illustration purposes. Any difference in operation is clearly indicated in the text, for example, “SLV-D910N only”.

Step 2 : Setting up the remote commander

Inserting the batteries

Insert two size AA (R6) batteries by matching the + and – on the batteries to the diagram inside the battery compartment.

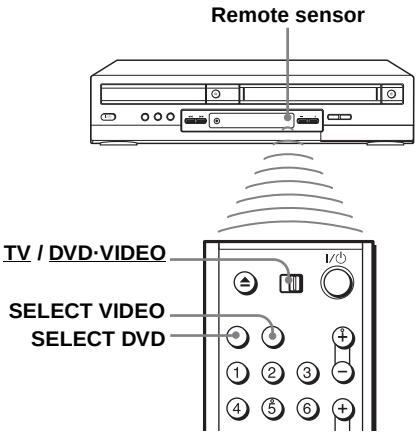
Insert the negative (–) end first, then push in and down until the positive (+) end clicks into position.



Using the remote commander

You can use this remote commander to operate this DVD-VCR and a Sony TV. Buttons on the remote commander marked with a dot (•) can be used to operate your Sony TV.

If the TV does not have the R symbol near the remote sensor, this remote commander will not operate the TV.



To operate	Set TV / DVD·VIDEO to
the DVD player	DVD·VIDEO, then press SELECT DVD and point at the remote sensor at the DVD-VCR
the VCR	DVD·VIDEO, then press SELECT VIDEO and point at the remote sensor at the DVD-VCR
your TV	TV and point at the remote sensor at your TV

Notes

- With normal use, the batteries should last about three to six months.
- If you do not use the remote commander for an extended period of time, remove the batteries to avoid possible damage from battery leakage.
- Do not use a new battery with an old one.
- Do not use different types of batteries.
- Do not leave the remote commander in an extremely hot or humid place.
- Do not drop any foreign object into the remote casing, particularly when replacing the batteries.
- Do not expose the remote sensor to direct light from the sun or lighting apparatus. Doing so may cause a malfunction.

continued

Controlling other TVs with the remote commander

The remote commander is preprogrammed to control non-Sony TVs. If your TV is listed in the following table, set the appropriate manufacturer's code number.

1 Set TV / DVD·VIDEO at the top of the remote commander to TV.

2 Hold down I/⏻, and enter your TV's code number using the number buttons. Then release I/⏻.

Now you can use the I/⏻, VOL +/–, PROG +/–, MUTING*, TV/VIDEO, 0-9 and -/--* buttons to control your TV. You can also use the buttons marked with a dot (•) to control a Sony TV. To control the DVD-VCR, reset TV / DVD·VIDEO to DVD·VIDEO.

* for Sony TV only

Code numbers of controllable TVs

If more than one code number is listed, try entering them one at a time until you find the one that works with your TV.

Manufacturer	Code number
Sony	01, 02
Akai	68
Ferguson	52
Grundig	10, 11
Hitachi	24
JVC	33
Loewe	45
Mivar	09, 70
NEC	66
Nokia	15, 16, 69

Manufacturer	Code number
Panasonic	17, 49
Philips	06, 07, 08
Saba	12, 13
Samsung	22, 23
Sanyo	25
Sharp	29
Telefunken	36
Thomson	43
Toshiba	38

Notes

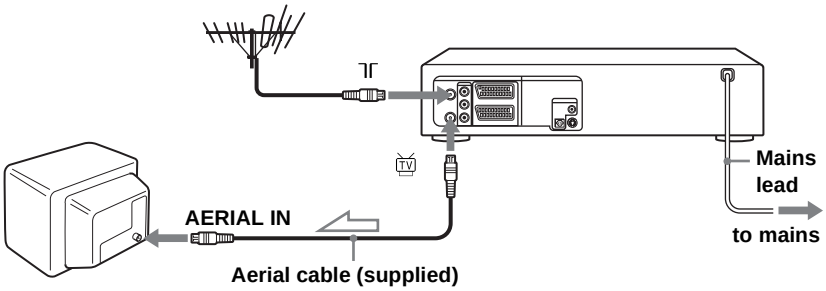
- If you enter a new code number, the code number previously entered will be erased.
- If the TV uses a different remote control system from the one programmed to work with the DVD-VCR, you cannot control your TV with the remote commander.
- When you replace the batteries of the remote commander, the code number may change. Set the appropriate code number every time you replace the batteries.

Step 3 : Connecting the DVD-VCR

Note that “Advanced Hookups” (page 52) explains additional hookup methods that will optimize the picture and sound for a true “hometheatre” experience.

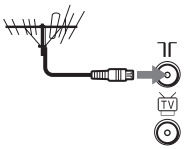
If your TV has a Scart (EURO-AV) connector, see page 12.

If your TV does not have a Scart (EURO-AV) connector

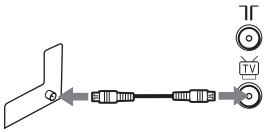


: Signal flow

1 Disconnect the aerial cable from your TV and connect it to ⅂ on the rear panel of the DVD-VCR.



2 Connect TV of the DVD-VCR and the aerial input of your TV using the supplied aerial cable.



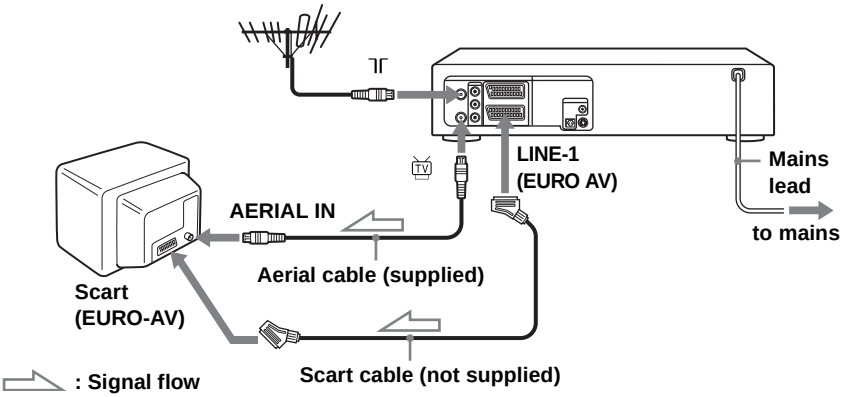
3 Connect the mains lead to the mains.

Note

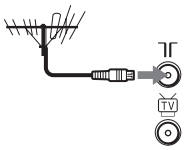
- When you connect the DVD-VCR and your TV only with an aerial cable, you have to tune your TV to the DVD-VCR (see page 14).

continued

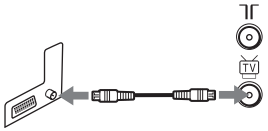
If your TV has a Scart (EURO-AV) connector



1 Disconnect the aerial cable from your TV and connect it to ⅂ on the rear panel of the DVD-VCR.

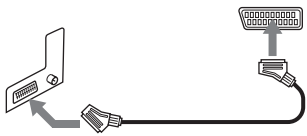


2 Connect TV of the DVD-VCR and the aerial input of your TV using the supplied aerial cable.



3 Connect LINE-1 (EURO AV) on the DVD-VCR and the Scart (EURO-AV) connector on the TV with the optional Scart cable.

This connection improves picture and sound quality. Whenever you want to watch the DVD-VCR picture, press TV/VIDEO to display the VCR indicator in the display window.

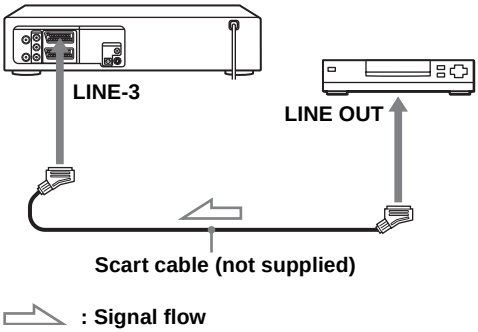


4 Connect the mains lead to the mains.

Additional connection

To a satellite or digital tuner with Line Through

Using the Line Through function, you can watch programmes from a satellite or digital tuner connected to this DVD-VCR on the TV even when the DVD-VCR is turned off. When you turn on the satellite or digital tuner, this DVD-VCR automatically sends the signal from the satellite or digital tuner to the TV without turning itself on.



1 Connect the satellite or digital tuner to the LINE-3 connector as shown above.

2 Turn off the DVD-VCR.

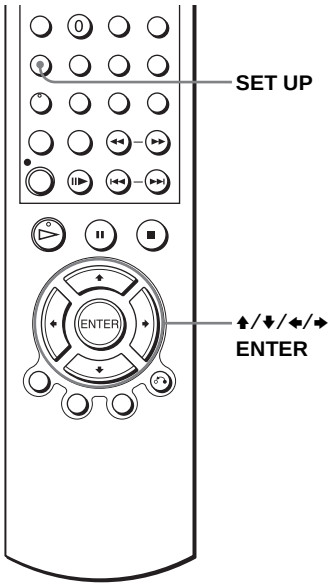
To watch a programme, turn on the satellite or digital tuner and the TV.

Notes

- This function may not work with some types of satellite or digital tuners.
- When the DVD-VCR is turned off, set the TV to the video channel.

Step 4 : Setting up the DVD-VCR with the Auto Set Up function

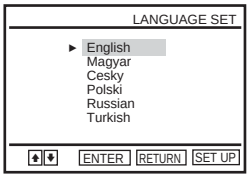
Before using the DVD-VCR for the first time, set up the DVD-VCR using the Auto Set Up function. With this function, you can set TV channels, and DVD-VCR clock automatically.



1 Turn on your TV and set it to the video channel.

If your TV does not have a Scart (EURO-AV) connector, tune the TV to channel 32 (the initial RF channel for this DVD-VCR). Refer to your TV manual for TV tuning instructions. If the picture does not appear clearly, see “To change the RF channel” on page 16.

2 Connect the mains lead to the mains.

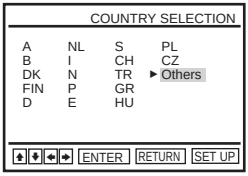


- SLV-D910N
  The DVD-VCR automatically turns on and the “LANGUAGE SET” menu appears.
- SLV-D910R
  The DVD-VCR automatically turns on and auto tuning starts. (“LANGUAGE SET” and “COUNTRY SELECTION” are skipped only for this model.)

3

Press ↑/↓ to select the desired language, then press ENTER repeatedly.

The “COUNTRY SELECTION” menu appears.



The abbreviations of the countries are as follows:

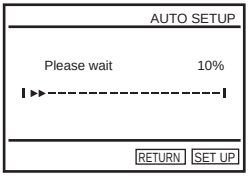
Abbreviation	Country
A	Austria
B	Belgium
DK	Denmark
FIN	Finland
D	Germany
NL	Netherlands
I	Italy
N	Norway
P	Portugal

Abbreviation	Country
E	Spain
S	Sweden
CH	Switzerland
TR	Turkey
GR	Greece
HU	Hungary
PL	Poland
CZ	Czech

4

Press ↑/↓/←/→ to select the abbreviation of your country from the table in step 3, then press ENTER.
If your country does not appear, select “Others”.

The DVD-VCR starts searching for all of the receivable channels and presets them (in the appropriate order for your local area).



If you want to change the order of the channels or disable unwanted programme positions, see “Changing/disabling programme positions” on page 24.

After the search is complete, the current time appears for any stations that transmit a time signal. If the time does not appear, set the clock manually. See “Setting the clock” on page 20.

continued

To cancel the Auto Set Up function

Press SET UP.

To change the RF channel

If the picture does not appear clearly on the TV, change the RF channel on the DVD-VCR and TV. Select “Install” in the “OPTION” menu, then press ↑/↓ to select “Video Output CH”. Select the RF channel by pressing the ←/→ buttons and press ENTER. Then, tune the TV to the new RF channel so that a clear picture appears.

Tip

- If you want to change the language for the on-screen display from the one preset in the Auto Set Up function, see page 19.

Notes

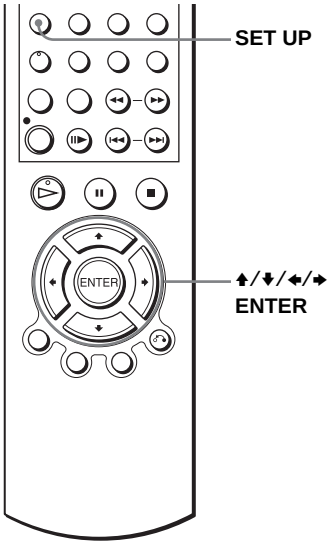
- Whenever you operate the Auto Set Up function, some of the settings (timer, etc.) will be reset. If this happens, you have to set them again.
- Auto preset starts automatically only when you plug in the mains lead for the first time after you purchase the DVD-VCR.
- If you want to use the Auto Set Up function again, select “Install” in the “OPTION” menu, then press ↑/↓ to select “Auto Setup”, then repeat step 3.
- Auto preset can be performed by pressing ■ on the unit continuously for 5 seconds or more during power off with no tape inserted.

Step 5 : Selecting the TV system

You must select the appropriate TV system for your area.

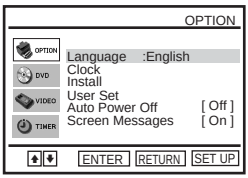
Before you start…

- Turn on the DVD-VCR and your TV.
- To control the DVD-VCR, set TV / DVD·VIDEO to DVD·VIDEO on the remote (page 9).
- Set your TV to the video channel so that the signal from the player appears on the TV screen.
- If the DVD player is in play mode, you cannot display the setup menu. Stop the DVD playback.



1 SET UP

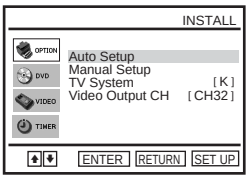
Press SET UP, then press ↑/↓ to select (OPTION), then press ENTER.



2

Press ↑/↓ to select “Install”, then press ENTER.

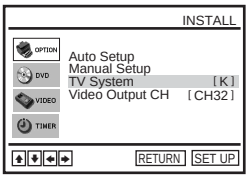
The “INSTALL” menu appears.



3

Press ↑/↓ to select “TV System”, then press ←/→ to select the appropriate TV system.

Select “G” for the B/G TV system, or “K” for the D/K TV system.



continued

4 SET UP

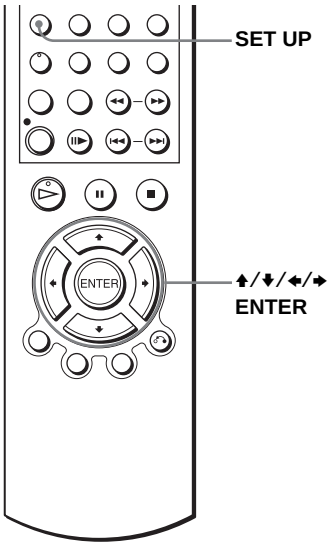
Press SET UP to exit the menu.

Step 6 : Selecting a language

You can change the on-screen display language.

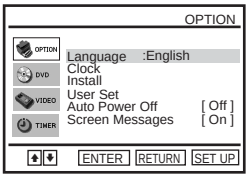
Before you start…

- Turn on the DVD-VCR and your TV.
- To control the DVD-VCR, set TV / DVD·VIDEO to DVD·VIDEO on the remote (page 9).
- Set your TV to the video channel so that the signal from the player appears on the TV screen.
- If the DVD player is in play mode, you cannot display the setup menu. Stop the DVD playback.



1 SET UP

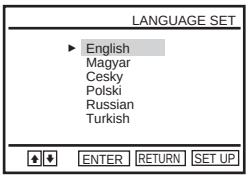
Press SET UP, then press ↑/↓ to select (OPTION), then press ENTER.



2

Press ↑/↓ to select “Language”, then press ENTER.

The “LANGUAGE SET” menu appears.



3

Press ↑/↓ to select the desired language, then press ENTER.

4 SET UP

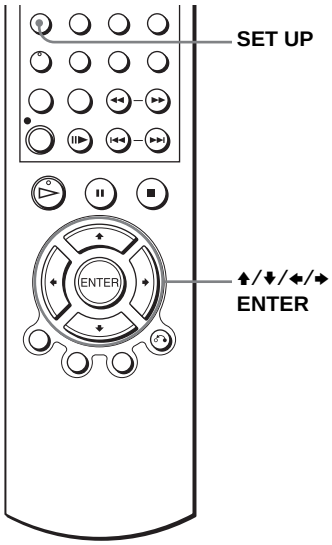
Press SET UP to exit the menu.

Step 7 : Setting the clock

You must set the time and date on the DVD-VCR to use the timer features properly.

The Auto Clock Set function* works only if a station in your area is broadcasting a time signal.

* SLV-D910N only

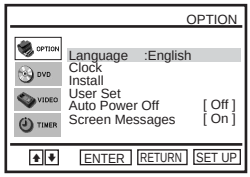


Before you start…

- Turn on the DVD-VCR and your TV.
- To control the DVD-VCR, set TV / DVD·VIDEO to DVD·VIDEO on the remote (page 9).
- Set your TV to the video channel so that the signal from the player appears on the TV screen.
- If the DVD player is in play mode, you cannot display the setup menu. Stop the DVD playback.

1 SET UP

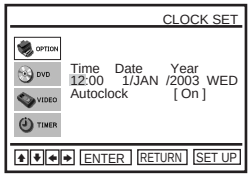
Press SET UP, then press ↑/↓ to select (OPTION), then press ENTER.



2

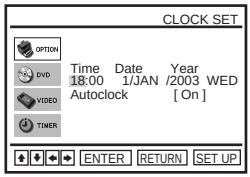
Press ↑/↓ to select “Clock”, then press ENTER.

The “CLOCK SET” menu appears.

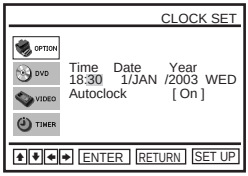


3

Press ↑/↓ to set the hour.



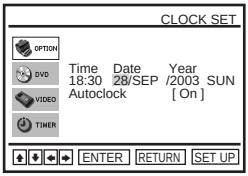
4 Press → to select the minutes and set the minutes by pressing ↑/↓.



5 Set the day, month, and year in sequence by pressing → to select the item to be set, and press ↑/↓ to select the digits, then press →.

The day of the week is set automatically.

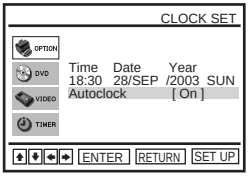
For SLV-D910R, skip step 6.



6 Press ↑/↓ to select "On" for the setting of the Auto Clock Set function. (SLV-D910N only)

The DVD-VCR automatically sets the clock according to the time signal broadcast between the channels PR 1 to PR 5.

If you do not need the Auto Clock Set function, select "Off".



7 Press ENTER to confirm the setting.

8 SET UP

Press SET UP to exit the menu.

Tips

- If you set "Autoclock" to "On", the Auto Clock Set function is activated whenever the DVD-VCR is turned off. The time is adjusted automatically by making reference to the time signal from the station (SLV-D910N only).
- To change the digits while setting, press ← to return to the item to be changed, and select the digits by pressing ↑/↓.

Note

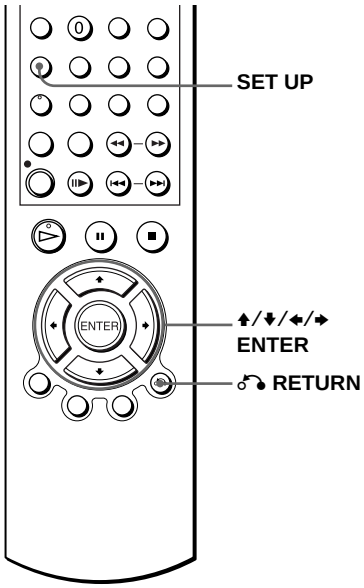
- The clock display appears when VIDEO mode is selected with no tape inserted or when the DVD-VCR is turned off.

Step 8 : Presetting channels

If some channels could not be preset using the Auto Set Up function, you can preset them manually.

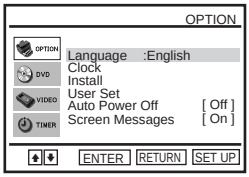
Before you start…

- Turn on the DVD-VCR and your TV.
- To control the DVD-VCR, set TV / DVD·VIDEO to DVD·VIDEO on the remote (page 9).
- Set your TV to the video channel so that the signal from the player appears on the TV screen.
- If the DVD player is in play mode, you cannot display the setup menu. Stop the DVD playback.



1 SET UP

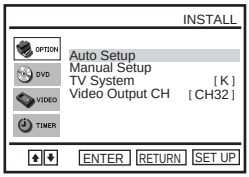
Press SET UP, then press ↑/↓ to select (OPTION), then press ENTER.



2

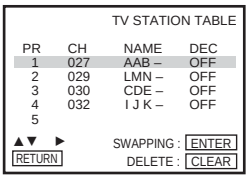
Press ↑/↓ to select "Install", then press ENTER.

The "INSTALL" menu appears.



3

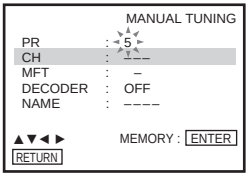
Press ↑/↓ to select “Manual Setup”, then press ENTER.



4

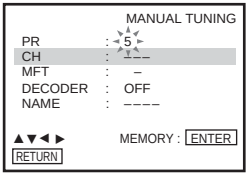
Press ↑/↓ to select the row which you want to preset, then press →.

To display other pages for programme positions 6 to 80, press ↑/↓ repeatedly.



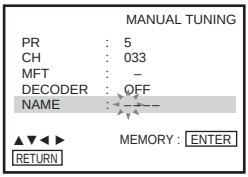
5

Press ←/→ repeatedly until the channel you want is displayed.



6

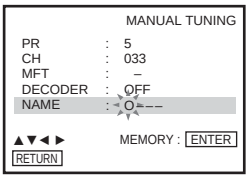
Press ↑/↓ to select “NAME”, then press →.



7

Enter the station name.

1 Press ↑/↓ to select a character.
Each time you press ↑, the character changes as shown below.
A → B → … → Z → 0 → 1 → … → 9 → A



2 Press → to set the next character.
The next space flashes.
To correct a character, press ←/→ until the character you want to correct flashes, then reset it.
You can set up to 4 characters for the station name.

8

Press ENTER to confirm the station name.

continued

9 Press ↶ RETURN, then press SET UP to exit the menu.

RETURN

SET UP

If the picture is not clear

If the picture is not clear, you may use the Manual Fine Tuning (MFT) function. After step 5, press ↑/↓ to select “MFT”. Press ←/→ to get a clear picture. Then press ENTER.

Tips

- To set the programme position for the decoder, see “Setting the PAY-TV/Canal Plus decoder” on page 30.
- The DVD-VCR must receive channel information for station names to appear automatically.

Note

- When adjusting MFT, the menu may become difficult to read due to interference from the picture being received.

Changing/disabling programme positions

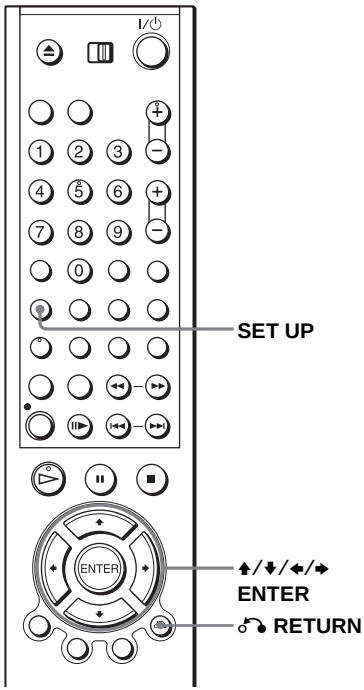
After setting the channels, you can change the programme positions as you like. If any programme positions are unused or contain unwanted channels, you can disable them.

You can also change the station names. If the station names are not displayed, you can enter them manually.

Changing programme positions

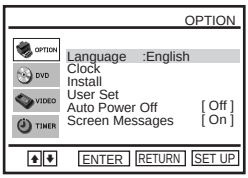
Before you start...

- Turn on the DVD-VCR and your TV.
- To control the DVD-VCR, set TV / DVD·VIDEO to DVD·VIDEO on the remote (page 9).
- Set your TV to the video channel so that the signal from the player appears on the TV screen.
- If the DVD player is in play mode, you cannot display the setup menu. Stop the DVD playback.



1 SET UP

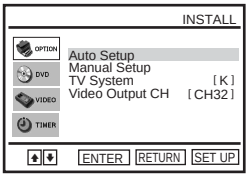
Press SET UP, then press ↑/↓ to select (OPTION), then press ENTER.



2

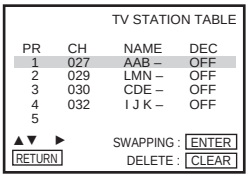
Press ↑/↓ to select “Install”, then press ENTER.

The “INSTALL” menu appears.



3

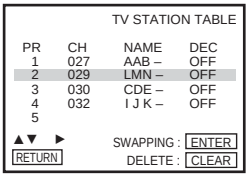
Press ↑/↓ to select “Manual Setup”, then press ENTER.



4

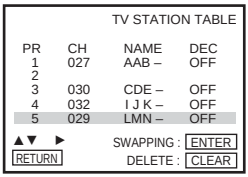
Press ↑/↓ to select the row containing the programme position you want to change.

To display other pages for programme positions 6 to 80, press ↑/↓ repeatedly.



5

Press ENTER, then press ↑/↓ to move to the desired programme position.



6

Press ENTER to confirm the setting.

To change the programme position of another station, repeat steps 4 through 6.

continued

7 RETURN / SET UP

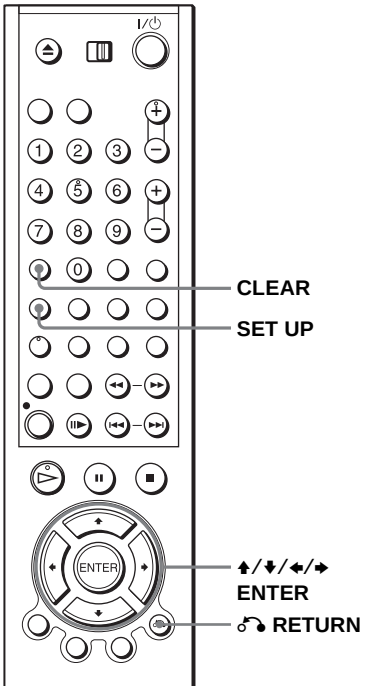
Press ↶ RETURN, then press SET UP to exit the menu.

Disabling unwanted programme positions

After presetting channels, you can disable unused programme positions. The disabled positions will be skipped later when you press the PROG +/– buttons.

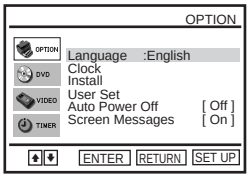
Before you start…

- Turn on the DVD-VCR and your TV.
- To control the DVD-VCR, set TV / DVD·VIDEO to DVD·VIDEO on the remote (page 9).
- Set your TV to the video channel so that the signal from the player appears on the TV screen.
- If the DVD player is in play mode, you cannot display the setup menu. Stop the DVD playback.



1 SET UP / ENTER

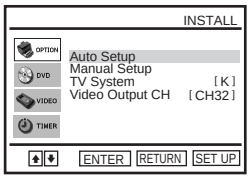
Press SET UP, then press ↑/↓ to select (OPTION), then press ENTER.



2

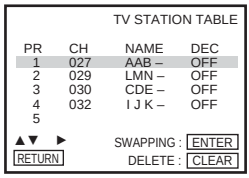
Press ↑/↓ to select “Install”, then press ENTER.

The “INSTALL” menu appears.



3

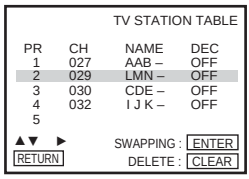
Press ↑/↓ to select “Manual Setup”, then press ENTER.



4

Press ↑/↓ to select the row which you want to disable.

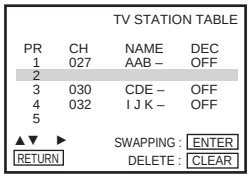
To display other pages for programme positions 6 to 80, press ↑/↓ repeatedly.



5 CLEAR

Press CLEAR.

The selected row will be cleared as shown on the right.



6 Repeat steps 4 and 5 for any other programme positions you want to disable.

7

SET UP

Press ↶ RETURN, then press SET UP to exit the menu.

Note

- Be sure to select the programme position you want to disable correctly. If you disable a programme position by mistake, you need to reset that channel manually.

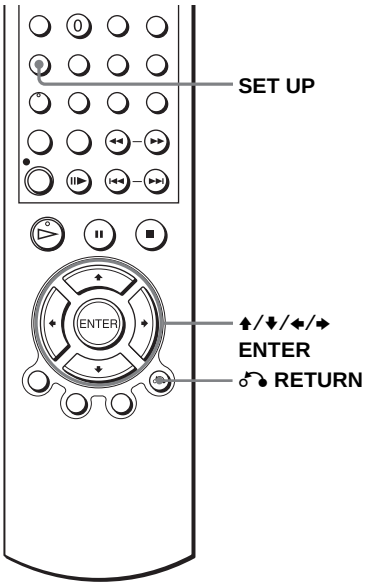
continued

Changing the station names

You can change or enter the station names (up to 4 characters). The DVD-VCR must receive channel information for station names to appear automatically.

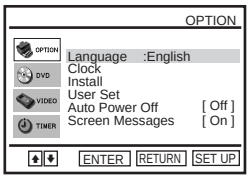
Before you start…

- Turn on the DVD-VCR and your TV.
- To control the DVD-VCR, set TV / DVD·VIDEO to DVD·VIDEO on the remote (page 9).
- Set your TV to the video channel so that the signal from the player appears on the TV screen.
- If the DVD player is in play mode, you cannot display the setup menu. Stop the DVD playback.



1 SET UP

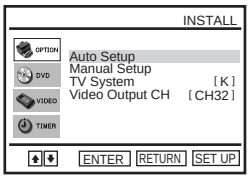
Press SET UP, then press ↑/↓ to select (OPTION), then press ENTER.



2

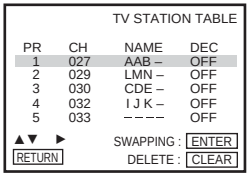
Press ↑/↓ to select “Install”, then press ENTER.

The “INSTALL” menu appears.



3

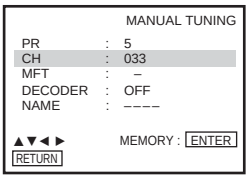
Press ↑/↓ to select “Manual Setup”, then press ENTER.


TV STATION TABLE
PR CH NAME DEC
1 027 AAB – OFF
2 029 LMN – OFF
3 030 CDE – OFF
4 032 I J K – OFF
5 033 – – – – OFF
▲▼ ►
RETURN
SWAPPING : ENTER
DELETE : CLEAR

4

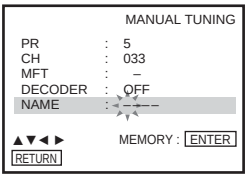
Press ↑/↓ to select the row which you want to change or enter the station name, then press →.

To display other pages for programme positions 6 to 80, press ↓/↑ repeatedly.



5

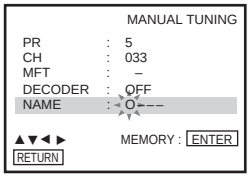
Press ↑/↓ to select “NAME”, then press →.



6

Enter the station name.

1 Press ↑/↓ to select a character.
Each time you press ↑, the character changes as shown below.
A → B → … → Z → 0 → 1 → … → 9 → A



2 Press → to set the next character.
The next space flashes.
To correct a character, press ←/→ until the character you want to correct flashes, then reset it.

You can set up to 4 characters for the station name.

7

Press ENTER to confirm the new name.

8

RETURN

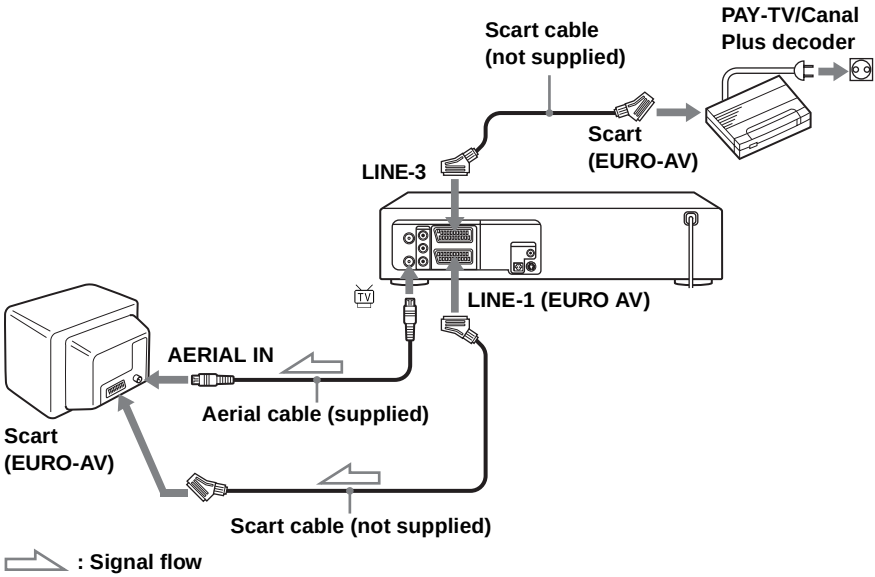
SET UP

Press ↶ RETURN, then press SET UP to exit the menu.

Setting the PAY-TV/Canal Plus decoder (SLV-D910N only)

You can watch or record PAY-TV/Canal Plus programmes if you connect a decoder (not supplied) to the DVD-VCR.

Connecting a decoder



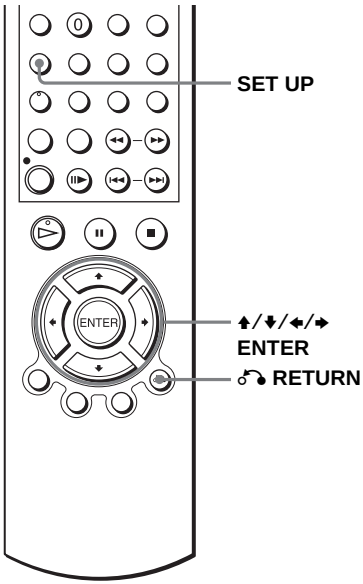
Setting PAY-TV/Canal Plus channels

To watch or record PAY-TV/Canal Plus programmes, set your DVD-VCR to receive the channels using the on-screen display.

In order to set the channels correctly, be sure to follow all of the steps below.

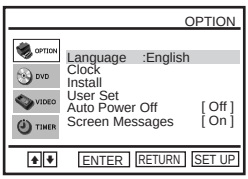
Before you start…

- Turn on the DVD-VCR and your TV.
- To control the DVD-VCR, set TV / DVD·VIDEO to DVD·VIDEO on the remote (page 9).
- Set your TV to the video channel so that the signal from the player appears on the TV screen.
- If the DVD player is in play mode, you cannot display the setup menu. Stop the DVD playback.



1 SET UP

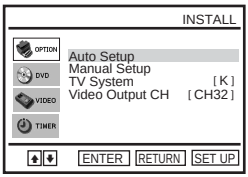
Press SET UP, then press ↑/↓ to select (OPTION), then press ENTER.



2

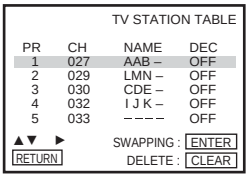
Press ↑/↓ to select “Install”, then press ENTER.

The “INSTALL” menu appears.



3

Press ↑/↓ to select “Manual Setup”, then press ENTER.

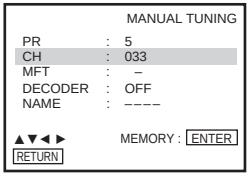

TV STATION TABLE
PR CH NAME DEC
1 027 AAB – OFF
2 029 LMN – OFF
3 030 CDE – OFF
4 032 I J K – OFF
5 033 – – – – OFF
▲▼ ►
RETURN
SWAPPING : ENTER
DELETE : CLEAR

continued

4

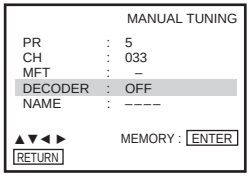
Press ↑/↓ to select the row which you want to set for the decoder, then press →.

To display positions 6 to 80, press ↑/↓ repeatedly.



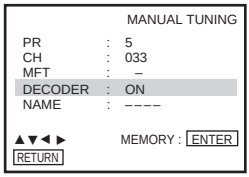
5

Press ↑/↓ to select “DECODER”.



6

Press → to set “DECODER” to “ON”, then press ENTER.



7

RETURN

SET UP

Press ↶ RETURN, then press SET UP to exit the menu.

Notes

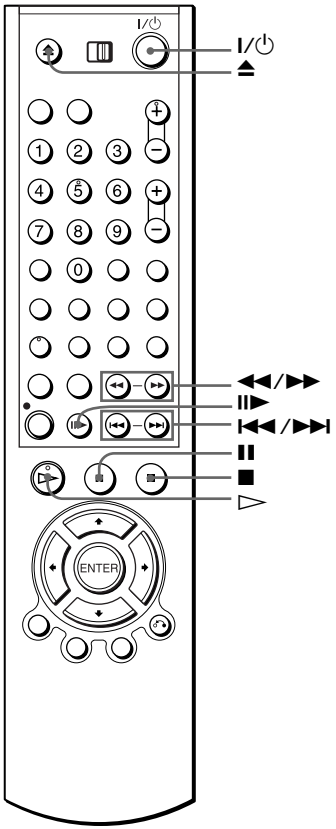
- To superimpose subtitles while watching Canal Plus programmes, make both decoder-VCR and VCR-TV connections using 21-pin Scart cables that are compatible with the RGB signals. You cannot record subtitles on the VCR.
- When you watch PAY-TV/Canal Plus programmes through the RFU input of the TV, press TV/VIDEO so that the VCR indicator appears in the display window.

Playing discs DVD VCD CD DATA-CD

Depending on the disc, some operations may be different or restricted. Refer to the operating instructions supplied with your disc.

Before you start...

- Turn on the DVD-VCR and your TV.
- Set your TV to the video channel so that the signal from the player appears on the TV screen.
- Set TV / DVD·VIDEO to DVD·VIDEO, then press SELECT DVD to control the DVD player (page 9).



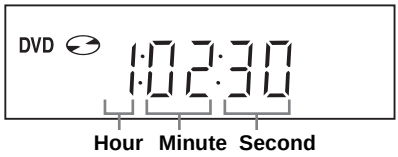
1 Press ⏏ to open the disc tray and place a disc on the disc tray.

with the playback side facing down

continued

2 Press ▷.

The disc tray closes and the DVD player starts playback. The display window shows the playback time.* Depending on the disc, a menu may appear on the TV screen. For DVDs, see page 66. For VIDEO CDs, see page 86.



* "– – – – –" appears when no disc is loaded.

Additional tasks

To	Press
Stop play	■
Pause play*	❚❚
Resume play after pause	❚❚ or ▷
Advance by frame in pause mode	❚❚►
Go to the next chapter, track, or scene in continuous play mode	►►❙ on the remote
Go back to the previous chapter, track, or scene in continuous play mode	❙◄◄ on the remote
Stop play and remove the disc	⏏

* If you pause the DVD player for more than 5 minutes, the DVD player will automatically stop.

To Resume playback for the current disc (Resume Play)

The DVD player remembers the point where you stopped the disc even if the DVD player enters standby mode by pressing I/⏻.

1 While playing a disc, press ■ to stop playback.

2 Press ▷.

The DVD player starts playback from the point where you stopped the disc in Step 1.

Tip

- To begin playback from the top of the disc, press ■ twice then press ▷.

To locate a point quickly by playing a disc in fast forward or fast reverse in continuous play mode (DVD, VIDEO CD and CD only)

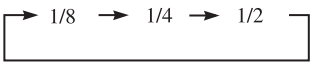
Press ◀◀ or ▶▶.
For DVD or VIDEO CD, each time you press the button, the playback speed changes as follows.
×2 → FF1/FR1 → FF2/FR2 → FF3/FR3 → FF4/FR4 (DVD only) → FF5/FR5 (DVD only)
Release the button at the desired speed.

For CD, the searching speed does not change (FF2/FR2 play).

When you find the point you want, press ▷.

To watch slow motion in continuous play mode (DVD and VIDEO CD only)

Press ❚❚, then press ▶▶ SLOW ❚►. With each press, the playback speed changes cyclically as follows.



To resume normal playback, press ▷.

Tip

- To make a video timer reservation during DVD playback, we recommend performing the operations under “Quick Timer Recording” (page 89).

Notes

- You can change the screen type using the “SCREEN SETUP” menu. (See “Screen Setup” on page 58.)
- Do not perform VIDEO playback while playing back a disc.
- If you play a DVD or VIDEO CD that has scratches, the player may stop playback at the point of the scratch or skip to the next track.
- You cannot change the MP3 or the Multi Session CD playback speed.
- VIDEO CD fast foward/reverse cannot be paused.
- During CD fast forward/reverse play, no sound is output.

Notes on playing DTS* sound tracks on a CD

- When playing DTS-encoded CDs, excessive noise will be heard from the analog stereo jacks. To avoid possible damage to the audio system, the consumer should take proper precautions when the analog stereo jacks of the DVD player are connected to an amplification system. To enjoy DTS Digital Surround™ playback, an external 5.1-channel decoder system must be connected to the digital jack of the DVD player.
- Set the sound to “STEREO” using the AUDIO button when you play DTS sound tracks on a CD (page 75).
- Do not play DTS sound tracks without first connecting the DVD player to an audio component having a built-in DTS decoder. The DVD player outputs the DTS signal via the DIGITAL AUDIO OUT (COAXIAL or OPTICAL) jack even if “DTS” is set to “Off” in “AUDIO SETUP” menu (page 56), and may affect your ears or cause your speakers to be damaged.

continued

Notes on playing DVDs with a DTS sound track

- DTS audio signals are output only through the DIGITAL AUDIO OUT (COAXIAL or OPTICAL) jack.
- When you play a DVD with DTS sound tracks, set “DTS” to “On” in “AUDIO SETUP” menu (page 56).
- If you connect the player to audio equipment without a DTS decoder, do not set “DTS” to “On” in “AUDIO SETUP” menu (page 56). A loud noise may come out from the speakers, affecting your ears or causing the speakers to be damaged.

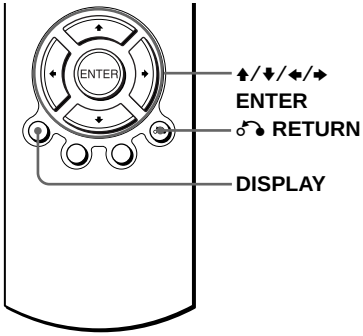
* “DTS” and “DTS Digital Out” are trademarks of Digital Theater Systems, Inc.

Guide to the on-screen display

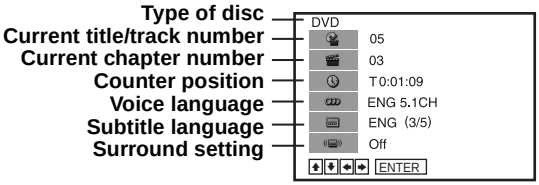
DVD VCD CD DATA-CD

You can check disc information during playback.

The displayed contents differ according to the type of disc being played.

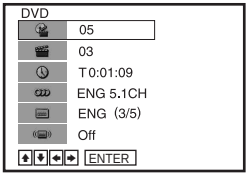


Press DISPLAY. The following information appears; type of disc, current title/track, chapter, counter position, voice language, subtitle language and surround setting. Refer to “DVD Audio/Subtitle Language” on page 119 for the abbreviation of the language.



You can playback the desired title/track, chapter or counter position using this menu.

To playback the desired title/track or chapter



1 Press ↑/↓ to select the desired item.

2 Press ←/→ to change the item.

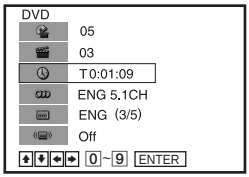
3 Press ENTER to start playback.

4 Press DISPLAY or RETURN to turn off the menu.

The title/track or chapter icon will appear on the DVD playback screen followed by the current title/track or chapter number and the counter position.

continued

To playback from the desired title/track counter position



1 Press ↑/↓ to select the counter position icon.

2 Enter the desired elapsed playing time of the current title/track using the number buttons.

3 Press ENTER to start playback.

4 Press DISPLAY or ↶ RETURN to turn off the menu.

Tip

- You can change the counter position information (playing time or remaining time) using ←/→ (DVD and CD only).

DVD

Indication	Counter information
T ＊:＊＊:＊＊	Elapsed playing time of the current title
T– ＊:＊＊:＊＊	Remaining time of the current title
C ＊:＊＊:＊＊	Elapsed playing time of the current chapter
C– ＊:＊＊:＊＊	Remaining time of the current chapter

CD

Indication	Counter information
T ＊:＊＊:＊＊	Elapsed playing time of the current track
T– ＊:＊＊:＊＊	Remaining time of the current track
D ＊:＊＊:＊＊	Elapsed playing time of the disc
D– ＊:＊＊:＊＊	Remaining time of the disc

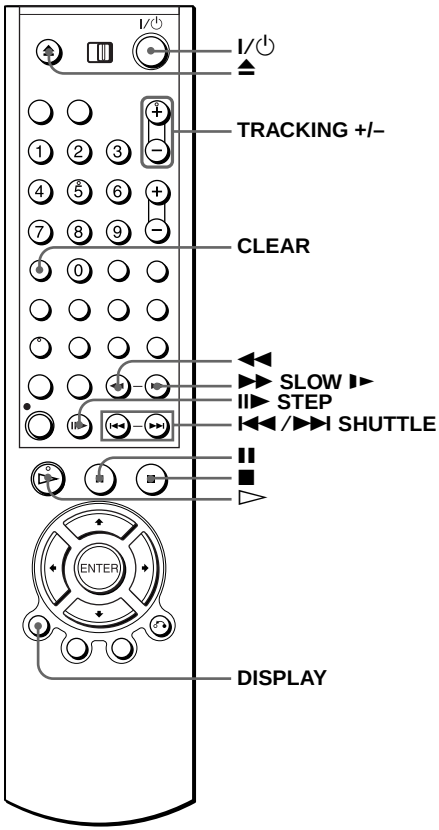
Notes

- The display may not change as operated depending on the disc.
- The display window continue indicating the playing time even when the counter position information on the on-screen display is being changed.

Playing a tape VHS

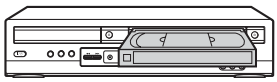
Before you start...

- Turn on the DVD-VCR and your TV.
- Set your TV to the video channel so that the signal from the player appears on the TV screen.
- Set TV / DVD·VIDEO to DVD·VIDEO, then press SELECT VIDEO to control the VCR (page 9).



1 Insert a tape.

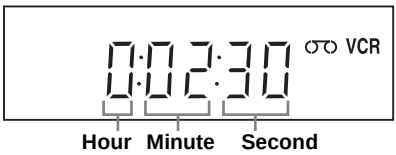
The VCR starts playing automatically if you insert a tape with its safety tab removed.



2 Press ▷.

The display window shows the playback time.

When the tape reaches the end, it will rewind automatically.



continued

Additional tasks

To	Press
Stop play	■
Pause play*	❚❚
Resume play after pause	❚❚ or ▷
Fast-forward the tape	▶▶ during stop
Rewind the tape	◀◀ during stop
Eject the tape	⏏

* If you pause the VCR for more than 5 minutes, the VCR will automatically resume play.

To play a recently watched scene

You can immediately rewind and playback the scene you want to watch again.

To skip playback

You can skip a scene that you do not want to watch (such as a commercial) and restart playback.

During playback, press ❚❚▶ STEP. The VCR skips the tape 30 seconds on the counter each time the button is pressed (up to four times) and playback is resumed.

To turn off the power while rewinding (Rewind Shut Off)

Press I/⏻ while the tape is rewinding. The power will turn off, but the tape will keep rewinding until it reaches the end.

To play/search at various speeds

Playback options	Operation
View the picture during fast-forward or rewind	During fast-forward, hold down ▶▶. During rewind, hold down ◀◀.
Play at high speed	• During playback, briefly press ▶▶ or ◀◀. The tape continues to play at 5 times normal speed. • During playback, hold down ▶▶ or ◀◀. The tape continues to play at 5 times normal speed. When you release the button, normal playback resumes.
Play in slow motion	During pause, press ▶▶ SLOW ❚►.
Play frame by frame	During pause, press ❚❚▶ STEP.
Play at various speeds (Shuttle play)	During playback, press ⏮ or ⏭. You can change the playback speed as follows. REVIEW*1 ↔ –×2 ↔ –×1 ↔ –SLOW ↔ STILL ↔ SLOW ↔ PLAY ↔ ×2 ↔ CUE*2

*1 “REW” flashes in the display window.

*2 “FF” flashes in the display window.

To resume normal playback

Press ▷.

To set the colour system

If the playback picture has no colour, or streaks appear during playback, set “Colour System” in the “USER SET” menu to conform to the system that the tape was recorded in (see page 103). (Normally set the option to “Auto”.)

To use the time counter

Press CLEAR at the point on the tape that you want to find later. The counter in the display window resets to “0:00:00”.

To display the counter on the TV screen, press DISPLAY during normal playback.

Tip

- Adjust the picture using the TRACKING +/– buttons if:
  – Streaks appear while playing in slow motion.
  – Bands appear at the top or bottom while pausing.
  – The picture shakes during pause.

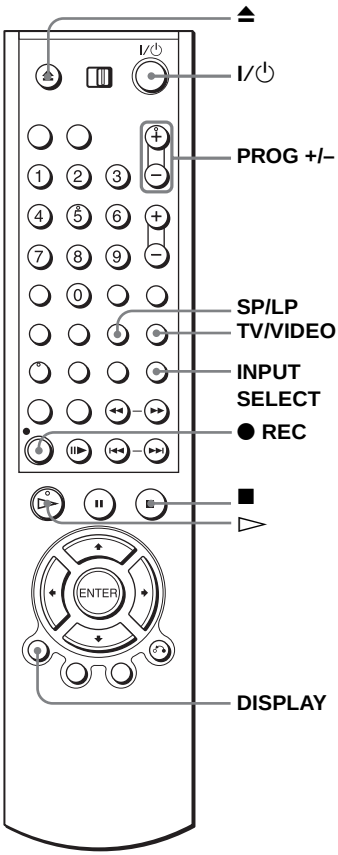
Notes

- Tapes recorded in the LP mode on other VCRs can be played back on this VCR but the picture quality cannot be guaranteed.
- The counter resets to “0:00:00” whenever a tape is reinserted.
- The counter stops counting when it comes to a portion with no recording.
- Depending on your TV, the following may occur while playing an NTSC-recorded tape:
  – The picture becomes black and white.
  – The picture shakes.
  – No picture appears on the TV screen.
  – Black streaks appear horizontally on the TV screen.
  – The colour density increases or decreases.
- When 10 hours have passed, the counter in the display window returns to “0:00:00” and the count starts over again.
- The sound is muted during playback at various speeds.
- The picture may show noise when playing at high speed in reverse.
- While playing a tape, you can display the setup menu, but the remote commander’s function switches to DVD automatically. Press SET UP to exit the menu.
- Stop disc playback while playing back a video.
- The picture returns to normal playback from slow motion in reverse in 30 seconds.

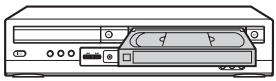
Recording TV programmes VHS

Before you start...

- Turn on the DVD-VCR and your TV.
- Switch the input selector on your TV so that the signal from the player appears on the TV screen.
- Set TV / DVD·VIDEO to DVD·VIDEO, then press SELECT VIDEO to control the VCR (page 9).
- To record from a decoder, turn it on.
- Make sure the tape is longer than the total recording time.



1 Insert a tape with its safety tab in place.



2 • PROG/ TRACKING

- To record a normal channel, press PROG +/– until the programme position number you want appears in the display window.

INPUT SELECT

- To record from a decoder or other source connected to one or more of the LINE inputs, press INPUT SELECT until the connected line appears in the display window.

3 SP / LP

Press SP/LP to select the tape speed, SP or LP.

LP (Long Play) provides recording time twice as long as SP. However, SP (Standard Play) produces better picture and audio quality.

4 ●REC

Press ● REC to start recording.

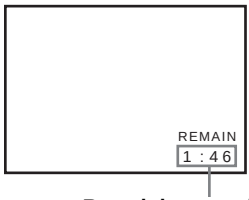
The recording indicator lights up red in the display window.

To stop recording

Press ■.

To check the remaining time

Press DISPLAY twice. With the display on, press DISPLAY again to check the remaining time.



continued

In order to get an accurate remaining time indication, be sure “Tape Select” in the “VIDEO SETUP” menu is set according to the tape type you use (see page 98).

Maximum Recording Time

Tape Length	SP	LP
E-180	3 hrs	6 hrs
E-240	4 hrs	8 hrs
E-260	4 hrs 20 mins	8 hrs 40 mins
E-300	5 hrs	10 hrs

To watch another TV programme while recording

1 Press TV/VIDEO to display “TV” in the display window.

2 Select another channel on the TV.

To watch a DVD while recording

1 Press SELECT DVD to control the DVD player.

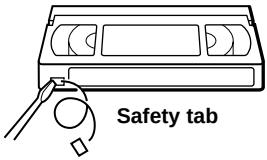
2 Press ⏏ and place the disc on the disc tray.

3 Press ▻.

The disc tray closes and the DVD player starts playback. The TV screen will automatically change to the DVD playback screen.

To save a recording

To prevent accidental erasure, break off the safety tab as illustrated. To record on the tape again, cover the tab hole with adhesive tape.



Tips

- To select a programme position, you can use the number buttons on the remote commander. For two-digit numbers, for example, press 2 and 3 to select “PR 23”.
- If you connect additional equipment to a LINE connector or jack, you can select the input signal using the INPUT SELECT or PROG +/– buttons.
- The DISPLAY information appears on the TV screen indicating information about the tape, but the information will not be recorded on the tape.
- If you do not want to watch TV while recording, you can turn off the TV. When using a decoder, make sure to leave it on.

Notes

- If a tape has portions recorded in both PAL (MESECAM) and NTSC systems, the time counter reading will not be correct. This discrepancy is due to the difference between the counting cycles of the two video systems.
- You cannot watch a PAY-TV/Canal Plus programme while recording another PAY-TV/Canal Plus programme.
- When you insert a non-standard commercially available tape, the remaining time may not be correct.
- The remaining time is intended for rough measurement only.
- About 30 seconds after the tape begins playback, the tape remaining time will be displayed.
- You cannot record a DVD to a VCR tape.
- To watch a TV programme during video recording, stop disc playback.

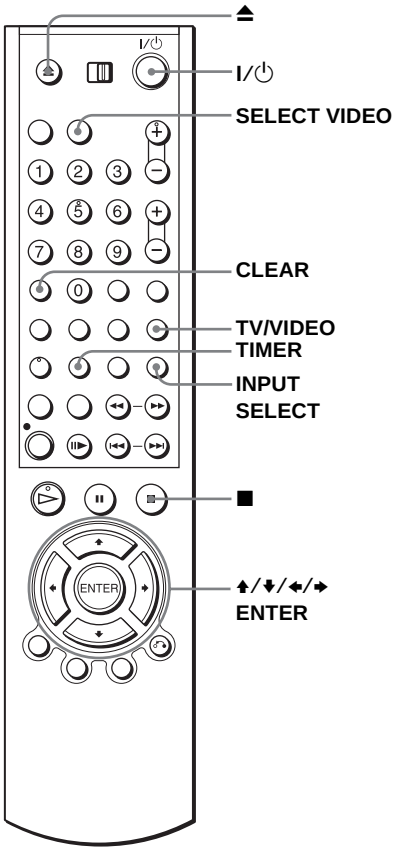
Recording TV programmes using the timer

VHS

You can preset up to six programmes at a time.

Before you start…

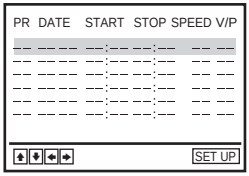
- Check that the DVD-VCR clock is set to the correct time.
- Turn on the DVD-VCR and your TV.
- Switch the input selector on your TV so that the signal from the player appears on the TV screen.
- Set TV / DVD·VIDEO to DVD·VIDEO, then press SELECT VIDEO to control the VCR (page 9).
- When using a decoder, turn it on.
- Insert a tape with its safety tab in place. Make sure the tape is longer than the total recording time.
- If the DVD player is in play mode, you cannot display the setup menu. Stop the DVD playback.



1 SUBTITLE/ TIMER

Press TIMER.

The timer programming menu appears.



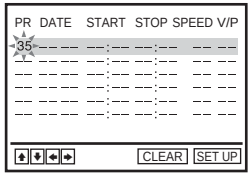
2

Set the date, start and stop times, programme position, tape speed and VPS/PDC function*:

1 Press → to select each item in turn.

2 Press ↑/↓ to set each item.

To correct a setting, press ← to return to that setting and reset.



- To record the same programme every day or the same day every week, see "Daily/weekly recording" on page 48.
- To use the VPS/PDC function*, set "V/P" to "On". For details about the VPS/PDC function, see "Timer recording with VPS/PDC signals (SLV-D910N only)" on page 48.

- To record from a decoder or other source connected to one or more of the LINE inputs, press INPUT SELECT to display the connected line in the "PR" position.

* SLV-D910N only

3

Press ENTER to confirm the setting.

To enter another setting, press ↑/↓ to select the next row and repeat step 2.

Press CLEAR to cancel the setting.

4

Press ENTER to confirm all settings.

5

Press I/⏻ to turn off the DVD-VCR.

The ⏲ indicator appears in the display window and the VCR stands by for recording.

To record from a decoder or other source, leave the connected equipment switched on.

continued

To stop recording

To stop the DVD-VCR while recording, press SELECT VIDEO and then press ■.

Daily/weekly recording

In step 2 above, press ↓ to select the recording pattern. Each time you press ↓, the indication changes as shown below. Press ↑ to change the indication in reverse order.

today → DLY (Monday to Sunday) → W-SA (every Saturday) ..... → W-SU (every Sunday) → 1 month later → (dates count down) → today

To use the Auto Tape Speed function

In step 2 above, press ↓ to select "Auto". When you are recording a programme in the SP mode and the remaining tape length becomes shorter than the recording time, the recording tape speed is automatically changed to the LP mode. Note that some noise will appear on the picture when the tape speed is changed. To operate this function correctly, the "Tape Select" setting in the "VIDEO SETUP" menu must be accurate (see page 98).

Timer recording with VPS/PDC signals (SLV-D910N only)

Some broadcast systems transmit VPS or PDC signals with their TV programmes. These signals ensure that your timer recordings are made regardless of broadcast delays, early starts, or broadcast interruptions.

To use the VPS/PDC function, set "V/P" to "On" in step 2 above. You can also use the VPS/PDC function for a source connected to one or more of the LINE inputs.

Tips

- To set the line input video source, you can also use the INPUT SELECT button.
- To check, change, or cancel the programme setting, see "Checking/changing/cancelling timer settings" on page 50.

Notes

- When setting the timer with VPS/PDC* signals, enter the start times exactly as indicated in the TV programme guide. Otherwise, the VPS/PDC function* will not work.
- If the VPS/PDC signal is too weak or the broadcasting station failed to transmit VPS/PDC signals, the VCR will start recording at the set time without using the VPS/PDC function*.
- The ⏲ indicator flashes in the display window when you press I/⏻ with no tape inserted.
- The VPS/PDC function* is automatically set to off for the timer recording of a satellite programme.

* SLV-D910N only

To watch another TV programme after setting the timer

1 Press TV/VIDEO to display “TV” in the display window.

2 If your TV is connected to the VCR using A/V connections, set the TV to the TV’s aerial input; if not, skip this step.

3 Select another channel on the TV.

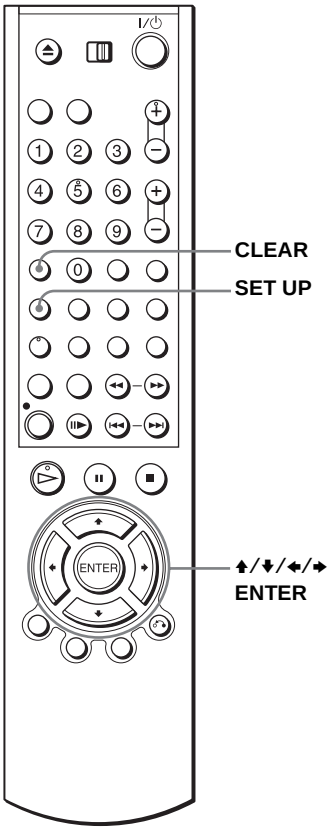
Tips

- To set the channel, you can also use the ↑/↓ or number buttons.
- If the ○ indicator appears, this means that the VCR is currently recording this programme.
- You can also do the following tasks while the VCR is recording:
  – Reset the counter (page 41).
  – Display tape information on the TV screen (page 43).

Checking/changing/cancelling timer settings VHS

Before you start…

- Check that the DVD-VCR clock is set to the correct time.
- Turn on the DVD-VCR and your TV.
- Switch the input selector on your TV so that the signal from the player appears on the TV screen.
- Set TV / DVD·VIDEO to DVD·VIDEO, then press SELECT VIDEO to control the VCR (page 9).
- When using a decoder, turn it on.
- Insert a tape with its safety tab in place. Make sure the tape is longer than the total recording time.
- If the DVD player is in play mode, you cannot display the setup menu. Stop the DVD playback.



1 SET UP

Press SET UP, then press ↑/↓ to select (TIMER), then press ENTER.

The timer programming menu appears.

- If you want to change a setting, go on to the next step.
- If you do not need to change the settings, press SET UP to exit the menu.

PR	DATE	START	STOP	SPEED	V/P
35	MO 30	20 :00	21 :00	SP	Off
20	WE 2	22 :00	23 :30	LP	Off
60	TU 1	20 :30	22 :00	Auto	Off
--	-- --	-- :--	-- :--	--	--
--	-- --	-- :--	-- :--	--	--
--	-- --	-- :--	-- :--	--	--

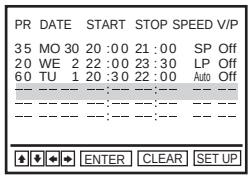
↑ ↓ ← → ENTER CLEAR SET UP

2

CLEAR

Press ↑/↓ to select setting you want to change or cancel.

- To change the setting, press ←/→ to flash the item you want to change, and press ↑/↓ to change it.
- To cancel the setting, press CLEAR.



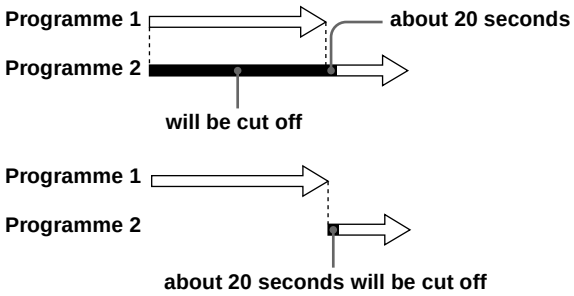
3

Press ENTER to confirm the setting.

If any settings remain, turn off the VCR to return to recording standby.

When the timer settings overlap

The programme that starts first has priority and the second programme starts recording only after the first programme has finished. If the programmes start at the same time, the programme listed first in the menu has priority.

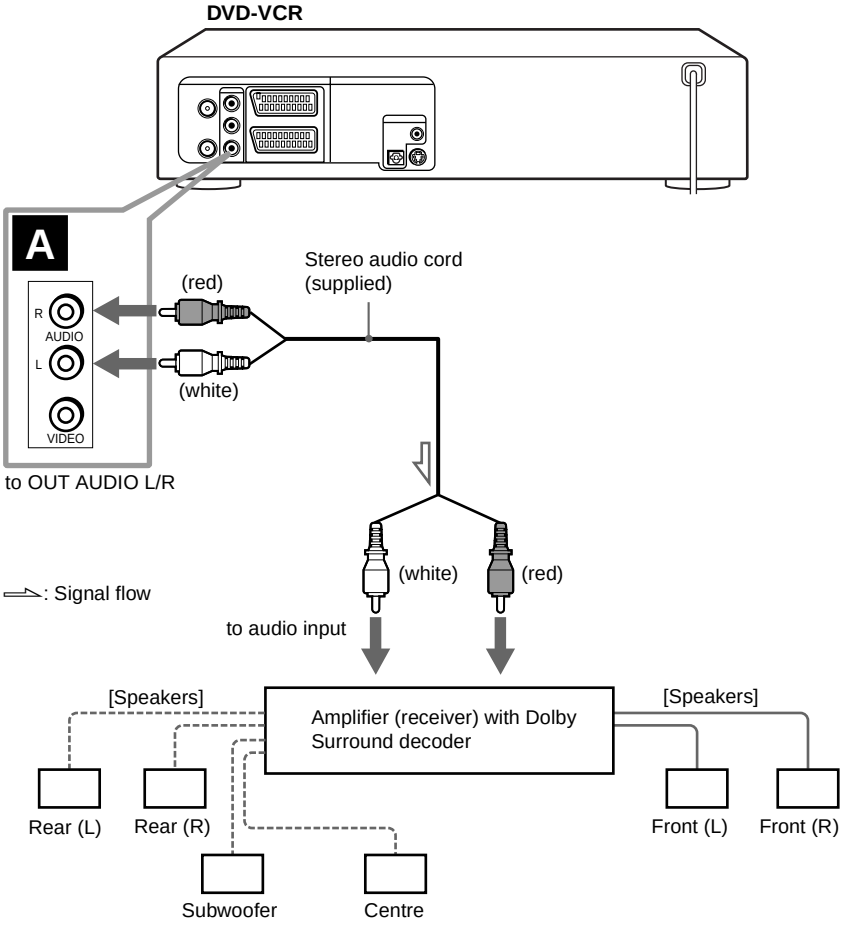


A/V Receiver hookup DVD VCD CD DATA-CD VHS

A Use this hookup if your A/V receiver has a Dolby* Surround (Pro Logic) decoder and 3 to 6 speakers

You can enjoy the Dolby Surround effects only when playing Dolby Surround audio or multi-channel audio (Dolby Digital) discs.

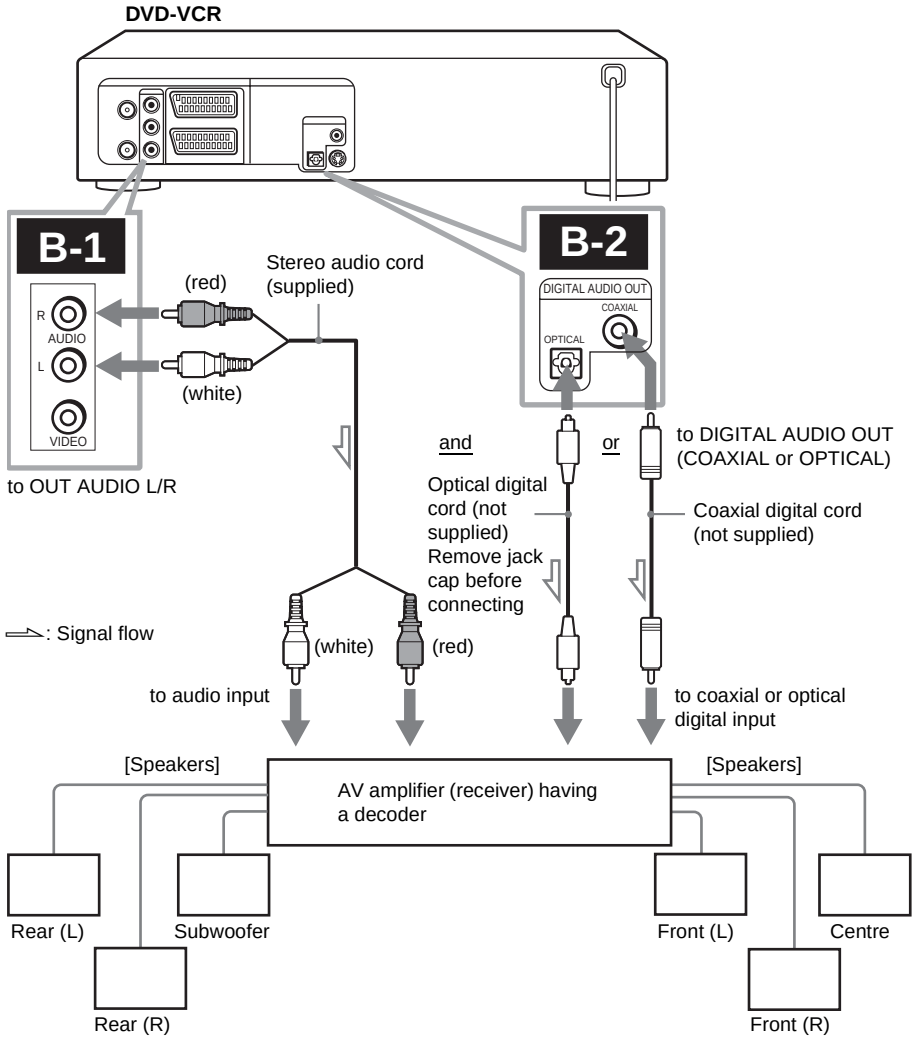
* Manufactured under license from Dolby Laboratories. "Dolby," "Pro Logic," and the double-D symbol are trademarks of Dolby Laboratories.



B Use this hookup if your A/V receiver has a Dolby Digital, MPEG audio or DTS* decoder, a digital input jack and 6 speakers

This connection will allow you to use the Dolby Digital, MPEG audio or DTS decoder function of your AV amplifier (receiver). You are not able to enjoy the surround sound effects of this player. You must make connections using **B-1** and **B-2**.

* "DTS" and "DTS Digital Out" are trademarks of Digital Theater Systems, Inc.



Note

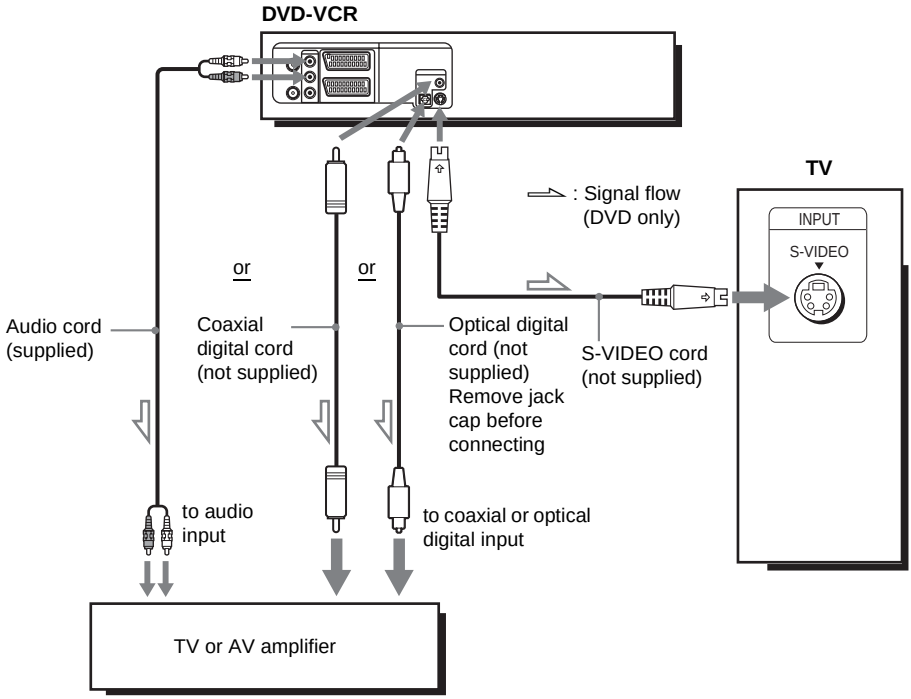
- After you have completed the connection, be sure to set "Dolby Digital" to "Dolby Digital" and "DTS" to "On" in "AUDIO SETUP" menu (page 55). If your AV amplifier (receiver) has an MPEG audio decoder function, set "MPEG" to "MPEG" in "AUDIO SETUP" menu (page 55). Otherwise, no sound or a loud noise will come from the speakers.

S-Video hookup DVD VCD DATA-CD

Make audio connections using the OUT AUDIO L/R jacks or DIGITAL AUDIO OUT (OPTICAL or COAXIAL) jacks when you use S-VIDEO hookup.

Use this hookup if your TV has an S-VIDEO input jack

- Connect an S-VIDEO cord (not supplied). You will enjoy high quality images.

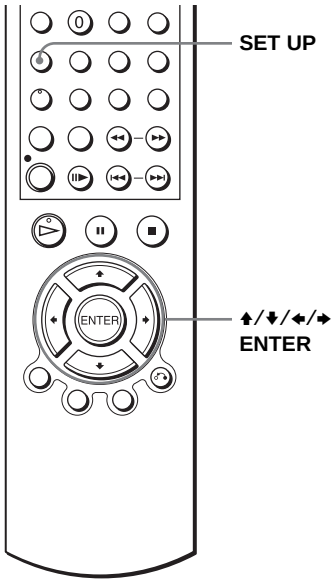


Notes

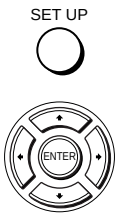
- Set "DVD S-Video Out" to "On" in the "SCREEN SETUP" menu (page 58) to view pictures from the S-VIDEO jack.
- The connection using S-VIDEO OUT jack is only for the DVD player.

Audio Setup DVD

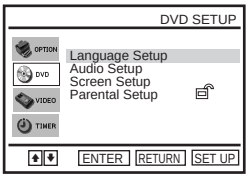
"Audio Setup" allows you to set the sound according to the playback and connection conditions.



1

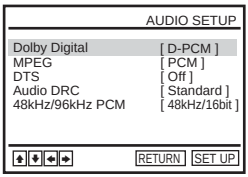


Press SET UP when the DVD player is in stop mode, then press ↑/↓ to select (DVD) and press ENTER.



2

Press ↑/↓ to select "Audio Setup", then press ENTER.



3

Press ↑/↓ to select the setup item from the displayed list: "Dolby Digital", "MPEG", "DTS", "Audio DRC", or "48kHz/96kHz PCM".

continued

4

Press ←/→ to select an item.

5 SET UP

Press SET UP to exit the menu.

Menu choices

• Dolby Digital

Selects the type of Dolby Digital signal.
The default setting is indicated in bold print.

D-PCM	Select this when the player is connected to an audio component lacking a built-in Dolby Digital decoder.
Dolby Digital	Select this when the player is connected to an audio component with a built-in Dolby Digital decoder.

• MPEG

Selects the type of MPEG audio signal.
The default setting is indicated in bold print.

PCM	Select this when the player is connected to an audio component lacking a built-in MPEG decoder. If you play MPEG audio sound tracks, the player outputs stereo signals via the DIGITAL AUDIO OUT (OPTICAL or COAXIAL) jack.
MPEG	Select this when the player is connected to an audio component with a built-in MPEG decoder.

• DTS

Selects whether or not to output DTS signals.
The default setting is indicated in bold print.

Off	Select this when the player is connected to an audio component lacking a built-in DTS decoder.
On	Select this when the player is connected to an audio component with a built-in DTS decoder.

• Audio DRC (Dynamic Range Control)

Makes the sound clear when the volume is turned down when playing a DVD that conforms to “Audio DRC”. This affects the output from the following jacks:

– OUT AUDIO L/R jacks
– DIGITAL AUDIO OUT (OPTICAL or COAXIAL) jack only when “Dolby Digital” is set to “D-PCM”.

The default setting is indicated in bold print.

Standard	Normally select this position.
TV Mode	Makes the low sounds clear even if you turn the volume down.

• 48kHz/96kHz PCM

Selects the sampling frequency of the audio signal.
The default setting is indicated in bold print.

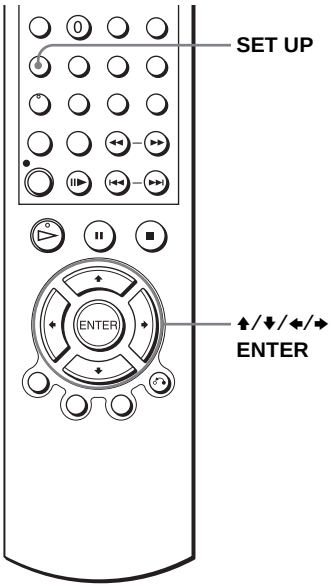
48kHz/16bit	The audio signals of DVD VIDEOs are always converted to 48 kHz/16 bit.
96kHz/24bit	All types of signals including 96 kHz/24 bit are output in their original format. However, if the signal is encrypted for copyright protection purposes, the signal is only output as 48 kHz/16 bit.

Notes

- If you select the surround setting while playing a DVD, the player does not output the following signals from the DIGITAL AUDIO OUT (OPTICAL or COAXIAL) jack.
  – Dolby Digital signals (when you set “Dolby Digital” to “D-PCM” in “AUDIO SETUP” menu)
  – MPEG audio signals
- If you connect a component that does not conform to the selected audio signal, a loud noise (or no sound) will come out from the speakers, affecting your ears or causing the speakers to be damaged.
- Even if you set “48kHz/96kHz PCM” to “96kHz/24bit”, the sampling frequency is converted to 48 kHz/16 bit when a “SURROUND” mode (page 76) is selected.
- The analog audio signals from AUDIO OUT L/R jacks are not affected by “48kHz/96kHz PCM” setting and keep their original sampling frequency level.

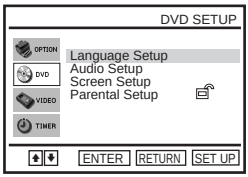
Screen Setup DVD

"Screen Setup" allows you to set the screen according to the playback and connection conditions.



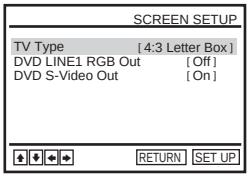
1 SET UP

Press SET UP when the DVD player is in stop mode, then press ↑/↓ to select (DVD) and press ENTER.



2

Press ↑/↓ to select "Screen Setup", then press ENTER.



3

Press ↑/↓ to select the setup item from the displayed list: "TV Type", "DVD LINE1 RGB Out" or "DVD S-Video Out".

4 Press ←/→ to select an item.

5 SET UP Press SET UP to exit the menu.

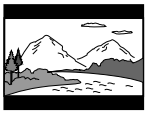
Menu choices

• TV Type

Selects the aspect ratio of the connected TV (4:3 standard or wide).
The default setting is indicated in bold print.

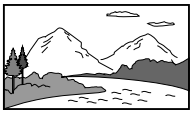
4:3 Letter Box	Select this when you connect a 4:3 screen TV. Displays a wide picture with bands on the upper and lower portions of the screen.
4:3 Pan Scan	Select this when you connect a 4:3 screen TV. Automatically displays the wide picture on the entire screen and cuts off the portions that do not fit.
16:9	Select this when you connect a wide-screen TV or a TV with a wide mode function.

4:3 Letter Box



4:3 Pan Scan

16:9



• DVD LINE1 RGB Out

Selects the method of outputting video signals from the LINE-1 (EURO AV) jack on the rear panel of the player.
The default setting is indicated in bold print.

Off	Select this not to output RGB signals.
On	Select this to output RGB signals.

• DVD S-Video Out

Selects whether or not to output S-video signals from the S-VIDEO OUT jack on the rear panel of the player.
The default setting is indicated in bold print.

On	Select this when the player is connected to a TV with S-VIDEO input jack.
Off	Select this when the player is connected to a TV lacking S-VIDEO input jack.

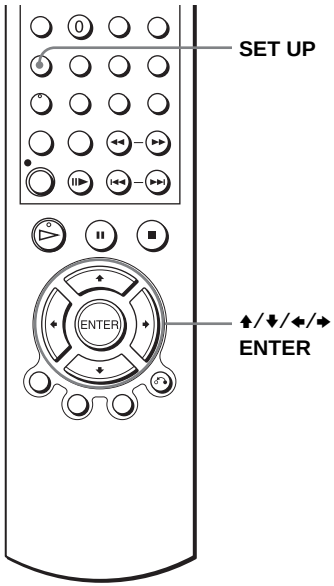
continued

Notes

- Playback settings stored in the disc take priority over the “DVD SETUP” menu settings and not all the functions described may work.
- Depending on the DVD, “4:3 Letter Box” may be selected automatically instead of “4:3 Pan Scan” or vice versa.
- The connection using S-VIDEO OUT jack is only for the DVD player.
- When you select “On” in the “DVD LINE1 RGB Out” setting, “DVD S-Video Out” is set to “Off” automatically.
- When you select “On” in the “DVD S-Video Out” setting, “DVD LINE1 RGB Out” is set to “Off” automatically.

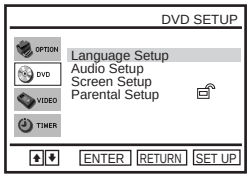
Setting the display or sound track language DVD

You can set various languages for the disc's menu, sound track or subtitle.



1 SET UP

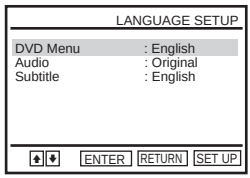
Press SET UP when the DVD player is in stop mode, then press ↑/↓ to select (DVD) and press ENTER.



2

Press ↑/↓ to select "Language Setup", then press ENTER.

The "LANGUAGE SETUP" menu appears.



continued

3

Press ↑/↓ to select the language setup item from the displayed list: “DVD Menu”, “Audio”, or “Subtitle”.
Then press ENTER.

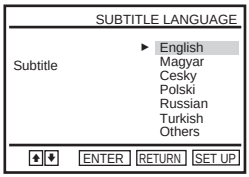
4

Press ↑/↓ to select the desired language, then press ENTER.

- DVD MENU LANGUAGE
  You can select the desired language for the disc’s menu.

- AUDIO LANGUAGE
  Switches the language of the sound track. When you select “Original”, the language given priority in the disc is selected.

- SUBTITLE LANGUAGE
  Switches the language of the subtitle recorded on the DVD.



5 SET UP

Press SET UP to exit the menu.

Tip

- If you select “Others” in step 4, an additional language menu appears. Press ↑/↓/←/→ to select the desired language, then press ENTER.

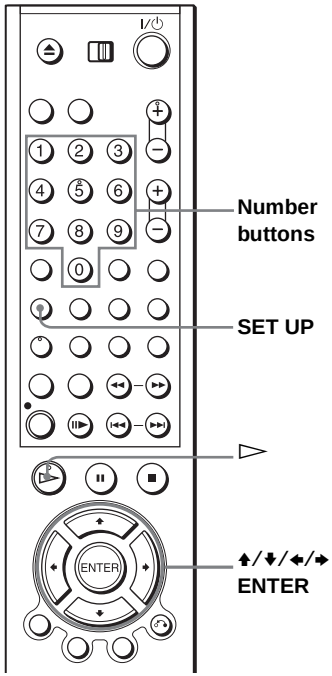
Notes

- When you select a language that is not recorded on the DVD in step 4, one of the recorded languages will be automatically selected.
- Playback settings stored in the disc take priority over the DVD SETUP settings and not all the functions described may work.
- If you change the DVD MENU LANGUAGE setting after playing the disc, press ⏏ to open and close the disc tray to activate the new setting, then play the disc again.

Parental Control (limiting playback by children)

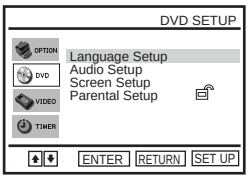
DVD

Playback of some DVDs can be limited according to a predetermined level such as the age of the users. The parental control function allows you to set a playback limitation level.



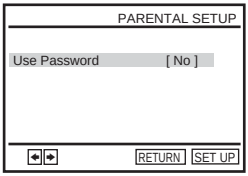
1 SET UP

Press SET UP when the DVD player is in stop mode, then press ↑/↓ to select (DVD) and press ENTER.



2

Press ↑/↓ to select “Parental Setup”, then press ENTER.



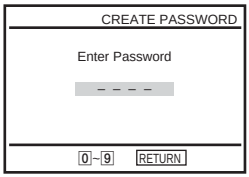
continued

3

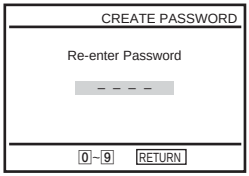
Press ➡ to select “Yes”.

- If you have not entered a password

  The display for registering a new password appears.
  Enter a 4-digit password using the number buttons.

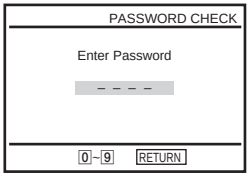


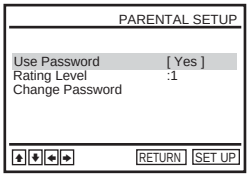
  The display for confirming the password appears.
  Re-enter the password.



- When you have already registered a password

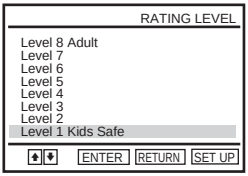
  The display for entering the password appears.
  Enter a 4-digit password using the number buttons.





4

Press ⬆/⬇ to select “Rating Level”, then press ENTER.



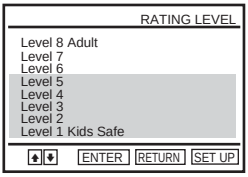
5

Press ⬆/⬇ to select the level you want, then press ENTER.

The options are as follows.

Level 8 (Adult) ⟷ Level 7 ⟷ Level 6 ⟷ Level 5 ⟷ Level 4 ⟷ Level 3 ⟷ Level 2 ⟷ Level 1 (Kids Safe)

The lower the value, the stricter the limitation.



6

Press SET UP to exit the menu.

To change the password

1. Select “Change Password” in step 4 on page 64.
   The display for entering a new password appears.
2. Enter a new 4-digit password using the number buttons.
   The display for confirming the password appears.
3. Re-enter the new password.

To turn off the Parental Control function

Set “Use Password” to “No” in step 3 on page 64.

To play a disc for which Parental Control is set

1. Insert the disc, then press ▷.
   The display for entering your password appears.
2. Enter your 4-digit password using the number buttons.
   The player starts playback.

If you forget your password

1. Remove the disc and turn off the DVD-VCR.
2. Turn on the DVD-VCR again with no disc in the unit.
3. Hold down ◀◀ and ▶▶ on the front panel simultaneously for 5 seconds.
   “Reset OK” appears on the screen.
4. Turn off the DVD-VCR.
   The password is cleared.
5. To create a new password, follow step 3 on page 64.

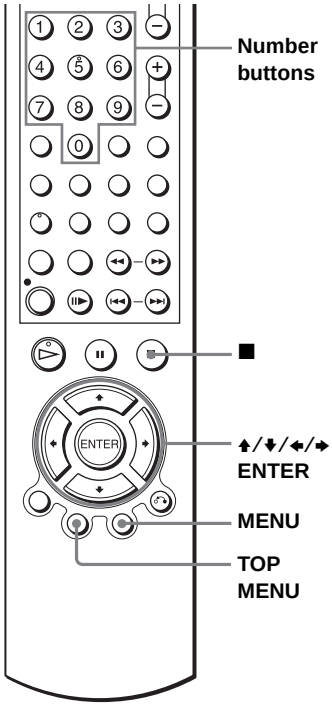
Notes

- When you play DVDs which do not have the Parental Control function, playback cannot be limited on this player.
- All the ratings higher than the level you select will be blocked.
- Write your password down and keep it in a safe place in case you forget it.

Using the DVD's menu DVD

A DVD is divided into long sections of a picture or a music feature called "titles". When you play a DVD which contains several titles, you can select the title you want using the TOP MENU button.

When you play DVDs that allow you to select items such as the language for the subtitles and the language for the sound, select these items using the MENU button.



1

Press TOP MENU or MENU.

The disc's menu appears on the TV screen.

The contents of the menu vary from disc to disc.

2

Press ↑/↓/←/→ to select the item you want to play or change.

You can also use the number buttons to select the item.

3

Press ENTER.

To turn off the DVD's menu

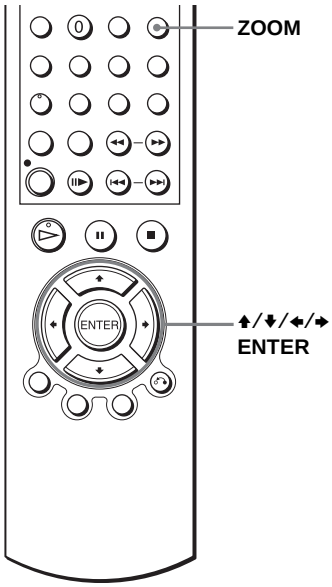
Press ■.

Note

- Depending on the DVD, you may not be able to use the TOP MENU button.

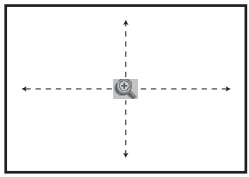
Zooming into a scene DVD VCD DATA-CD

You can zoom into a scene during playback or still mode.
To zoom into a JPEG image, see “Playing JPEG image files” on page 82.



1 MUTING/ZOOM

Press ZOOM.
“ 🔍 ” appears.



2

Press ↑/↓/←/→ to move “ 🔍 ” to the position where you want to zoom in.

3

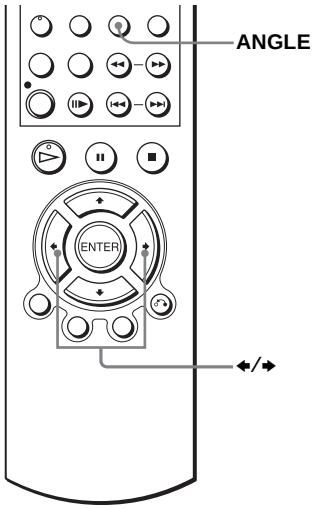
Press ENTER repeatedly to change the magnification.
Each time you press the button, the magnification changes as shown below.
2× → 4× → 2× → normal magnification

Notes

- You cannot use 4× magnification when you play VIDEO CDs.
- The zoom function may not work depending on the DVD.

Changing the angles DVD

If various angles (multi-angles) for a scene are recorded on the DVD, "" appears in the display when you press ANGLE during playback. This means that you can change the viewing angle.

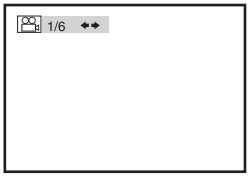


1 ANGLE/ SQPB

Press ANGLE during playback.

The angle number appears on the display.

The number after the slash indicates the total number of angles.



2

Press ←/→ repeatedly to select the angle number.

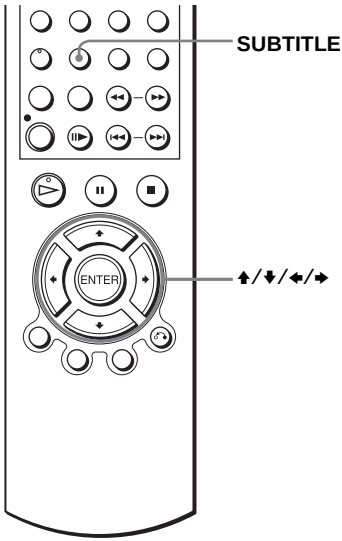
The scene changes to the selected angle.

Note

- Depending on the DVD, you may not be able to change the angles even if multi-angles are recorded on the DVD.

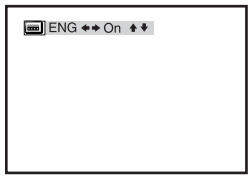
Displaying the subtitle DVD

If subtitles are recorded on the disc, you can change the subtitles or turn them on and off whenever you want while playing a DVD.



1 SUBTITLE/ TIMER

Press SUBTITLE during playback.



2

Press ←/→ repeatedly to select the language.

Depending on the DVD, the choice of language varies.
Refer to “DVD Audio/Subtitle Language” on page 119 for the abbreviation of the language.

3

Press ↑/↓ repeatedly to select “On”.

To turn off the subtitles

Select “Off” in step 3.

Note

- Depending on the DVD, you may not be able to change the subtitles even if multilingual subtitles are recorded on the DVD. You also may not be able to turn them off.

Various play mode functions (Programme play, Shuffle play, Repeat play) DVD VCD CD DATA-CD

You can set the following play modes:

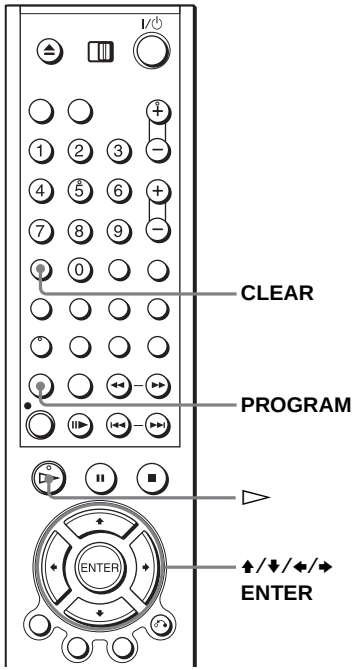
- Programme play (page 71)
- Shuffle play (page 73)
- Repeat play (page 74)

Note

- The play mode is cancelled when:
  – you open the disc tray
  – the player enters standby mode by pressing I/⏻.

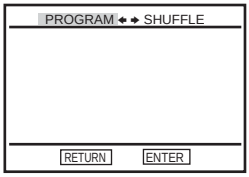
Creating your own programme (Programme play) CD

You can play the contents of a disc in the order you want by arranging the order of the tracks on the disc to create your own programme. You can programme up to 20 tracks.



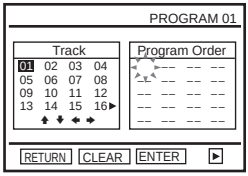
1 REPEAT/ PROGRAM

Press PROGRAM when the DVD player is in stop mode.

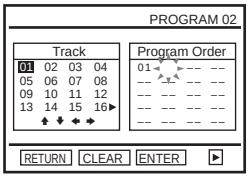


continued

2 Press ←/→ to select “PROGRAM”, then press ENTER.



3 Press ↑/↓/←/→ to select the track number you want to programme, then press ENTER.



4 To programme other tracks, repeat step 3.

The programmed track numbers are displayed in the selected order.

5 Press ▷ to start programme play.

Programme play starts.

When the programme ends, you can restart the same programme again by pressing ▷.

To stop programme play

Press CLEAR during programme play.

To change or cancel a programme

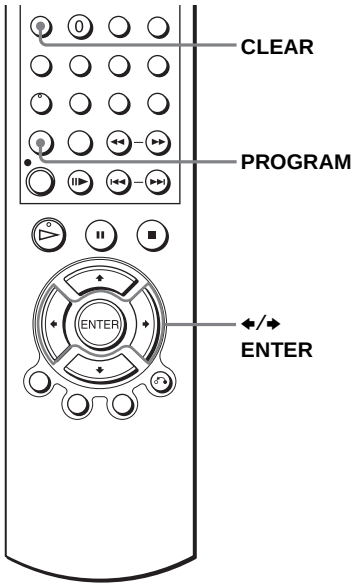
1 Follow steps 1 and 2 of “Creating your own programme (Programme play)”.

2 Press CLEAR.
The last programmed number is cancelled.

3 Follow step 3 for new programming.

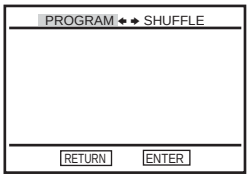
Playing in random order (Shuffle play) CD

You can shuffle the playback order of tracks. Subsequent “shuffling” may produce a different playing order.



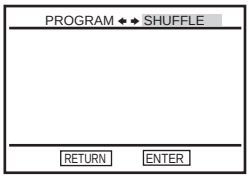
1 REPEAT/ PROGRAM

Press PROGRAM when the DVD player is in stop mode.



2

Press ←/→ to select “SHUFFLE”, then press ENTER.



To return to normal play

Press CLEAR during shuffle play.

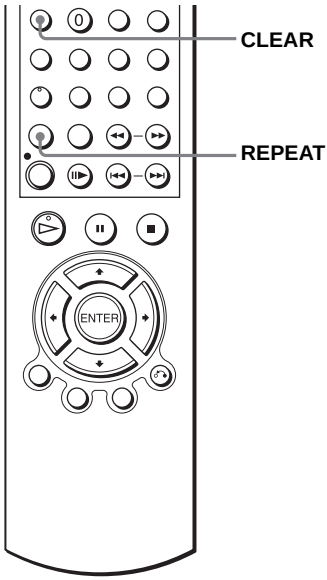
Tip

- When “SHUFFLE” is selected, shuffle play will continue until cancelled.

continued

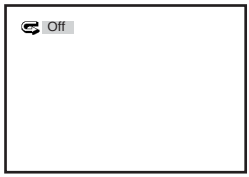
Playing repeatedly (Repeat play) DVD VCD CD DATA-CD

You can play all of the titles or tracks on a disc or a single title, chapter, or track repeatedly.



1 REPEAT/ PROGRAM

Press REPEAT during playback.



2 REPEAT/ PROGRAM

Press REPEAT to select the item to be repeated.

When playing a DVD

- Chapter: repeats the current chapter.
- Title: repeats the current title on a disc.

When playing a VIDEO CD or CD

- Track: repeats the current track.
- Disc: repeats all of the tracks.

When playing a DATA CD (MP3 audio)

- Track: repeats the current track.

To return to normal play

Select “Off” in step 2 or press CLEAR during repeat play.

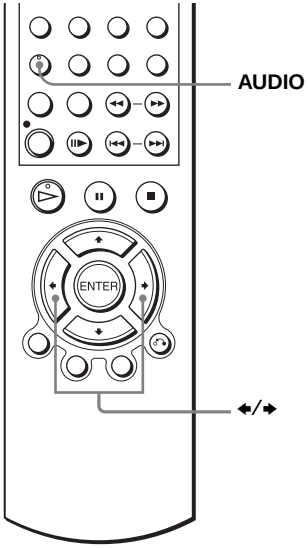
Tip

- When playing a DATA CD, press REPEAT again to cancel repeat play.

Changing the sound DVD VCD CD

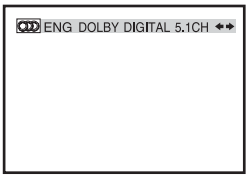
When playing a DVD recorded in multiple audio formats (PCM, Dolby Digital, MPEG or DTS), you can change the audio format. If the DVD is recorded with multilingual tracks, you can also change the language.

With CDs, DATA CDs, or VIDEO CDs, you can select the sound from the right or left channel and listen to the sound of the selected channel through both the right and left speakers. For example, when playing a disc containing a song with the vocals on the right channel and the instruments on the left channel, you can hear the instruments from both speakers by selecting the left channel.



1 AUDIO

Press AUDIO during playback.



2 ENTER

Press ←/→ repeatedly to select the desired language/audio setting.

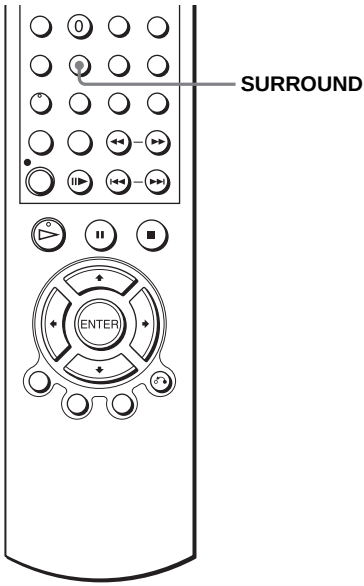
- When playing a DVD
  Depending on the DVD, the choice of language varies.
  Refer to “DVD Audio/Subtitle Language” on page 119 for the abbreviation of the language.
- When playing a VIDEO CD or CD
  The default setting is indicated in bold print.

Stereo	The standard stereo sound
Left	The sound of the left channel (monaural)
Right	The sound of the right channel (monaural)

Virtual surround setting DVD

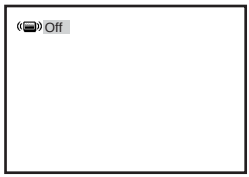
When you connect a stereo TV or 2 front speakers, SURROUND lets you enjoy surround sound effects by using sound imaging to create virtual rear speakers from the sound of the front speakers without using actual rear speakers.

This function is designed to work with the OUT AUDIO L/R jacks.



1 SURROUND

Press SURROUND during playback.



2 SURROUND

Press SURROUND repeatedly to select “On”.

To cancel the setting

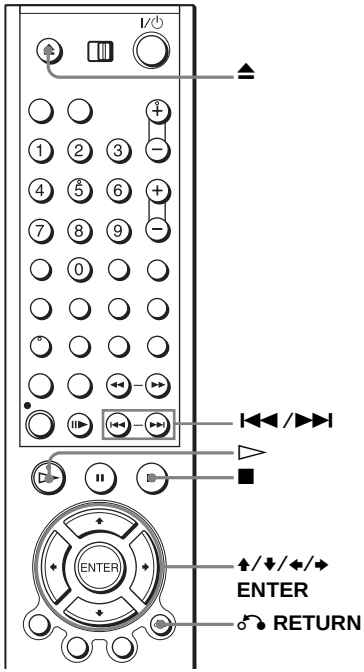
Select “Off” in step 2.

Notes

- Surround effects cannot be obtained for DTS or linear PCM.
- When the playing signal does not contain a signal for the rear speakers, the surround effects will be difficult to hear.
- When you activate the surround effect, turn off the surround setting of the connected TV or amplifier (receiver).
- Make sure that your listening position is between and at an equal distance from your speakers, and that the speakers are located in similar surroundings.
- If you use the DIGITAL AUDIO OUT (OPTICAL or COAXIAL) jack and set “Dolby Digital” to “Dolby Digital” or “DTS” to “On” in “AUDIO SETUP” menu, sound will come from your speakers but it will not have the surround effect.
- Certain audio features of this product manufactured under a license from Desper Products, Inc. Spatializer®, VBX™ and the circle-in-square device are trademarks owned by Desper Products, Inc.

Playing an MP3 audio track DATA-CD

You can play back DATA CDs (CD-ROMs/CD-Rs/CD-RWs) recorded in MP3 (MPEG1 Audio Layer 3) format.

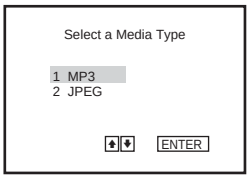


1

Press ⏏ and place a DATA CD on the disc tray, then press ⏏ to close the tray.

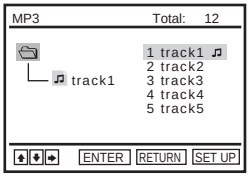
When you load a DATA CD which contains MP3 audio tracks and JPEG image files, "Select a Media Type" menu appears.

If you load a DATA CD which contains only MP3 audio files, the MP3 display appears. Then you can skip step 2.



2

Press ↑/↓ to select "MP3", then press ENTER.



3

Press ↑/↓ then press ENTER, or press ⏮/⏭ to select the desired track.

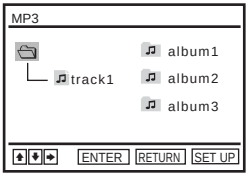
The selected track starts playing.

When a track or album is being played, its title is shaded. The playing track number appears on the display window.

4

RETURN

To change the album, press ↩ RETURN.

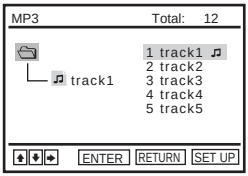


5

Press ↑/↓ to select an album, then press ENTER.

The list of tracks contained in the album appears.

To select a track, repeat step 2.



To go to the next or previous page

Press → or ←.

To return to the previous display

Press ↩ RETURN.

To turn off the display

Press ■, then press ↩ RETURN repeatedly.

Notes

- Only the letters in the alphabet and numbers can be used for album or track names. Anything else is displayed as an asterisk.
- Up to 8 alphanumeric characters can be displayed for album or track names.
- ID3 tags cannot be displayed.

About MP3 audio tracks

You can play MP3 audio tracks on CD-ROMs, CD-Rs, or CD-RWs. However, the discs must be recorded according to ISO9660 level 1, level 2, or Joliet format for the player to recognize the tracks.
You can also play discs recorded in Multi Session.
See the instructions of the CD-R/RW device or recording software (not supplied) for details on the recording format.

continued

To play a Multi Session CD

This player can play Multi Session CDs when an MP3 audio track is located in the first session. Any subsequent MP3 audio tracks, recorded in the later sessions, can also be played back. When audio tracks and images in music CD format or video CD format are recorded in the first session, only the first session will be played back.

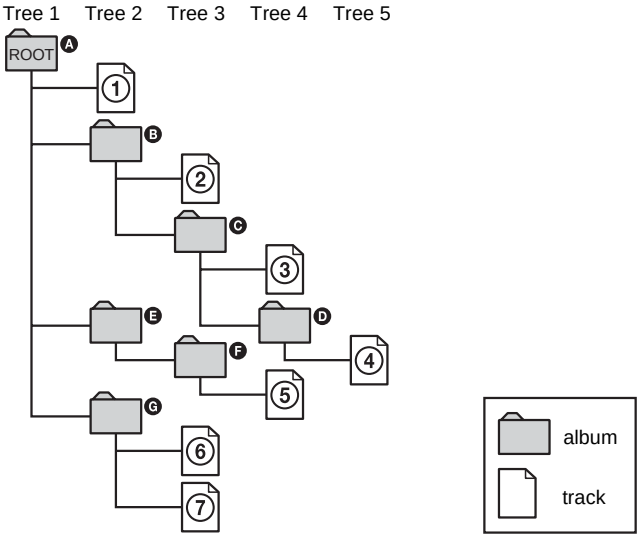
Notes

- If you put the extension ".MP3" to data not in MP3 format, the player cannot recognize the data properly and will generate a loud noise which could damage your speaker system.
- The player cannot play audio tracks in MP3PRO format.
- This player supports MP3 audio tracks recorded with a bit rate of 128 kbps and a sampling frequency of 44.1 kHz. Attempting to play MP3 audio tracks recorded with different specifications may result in loud noise, sound skipping or speaker damage.
- Depending on the disc, playback may take some time to start.

The Playback order of MP3 audio tracks

The playback order of albums and tracks recorded on a DATA CD is as follows.

- Structure of disc contents



When you insert a DATA CD and press ▷, the numbered tracks are played sequentially, from ① through ⑦. Any sub-albums/tracks contained within a currently selected album take priority over the next album in the same tree. (Example: ❸ contains ❹ so ④ is played before ⑤.)

When you press ↶ RETURN and the list of MP3 albums appears (page 79), the albums are arranged in the following order: ❶ → ❷ → ❸ → ❹ → ❻ → ❼. Albums that do not contain tracks (such as album ❺) do not appear in the list.

Tips

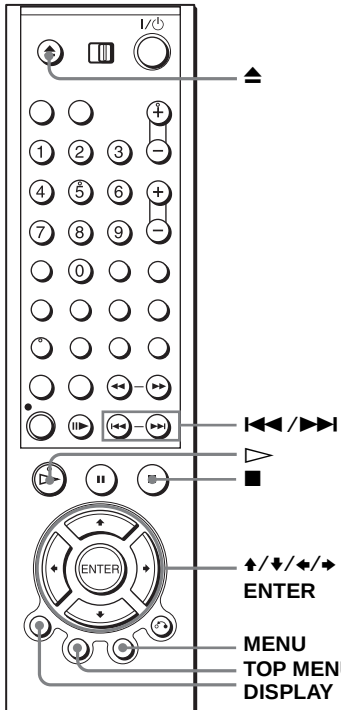
- If you add numbers (01, 02, 03, etc.) to the front of the track file names, the tracks will be played in that order.
- A disc with many trees takes longer to start playback. Some discs with many trees cannot be played back.

Notes

- Depending on the software you use to create the DATA CD, the playback order may differ from the illustration above.
- The playback order above may not be applicable if there are more than a total of 200 albums and tracks in the DATA CD.
- The player can recognize up to 100 albums (the player will count just albums, including albums that do not contain MP3 audio tracks). The player will not play any albums beyond the first 100 albums. Of the first 100 albums, the player will play no more than a combined total of 200 albums and tracks.

Playing JPEG image files DATA-CD

You can play JPEG image files on DATA CDs (CD-ROMs/CD-Rs/CD-RWs).

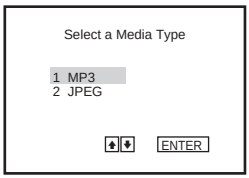


1

Press ⏏ and place a DATA CD on the disc tray, then press ⏏ to close the tray.

When you load a DATA CD which contains MP3 audio tracks and JPEG image files, “Select a Media Type” menu appears.

If you load a DATA CD which contains only JPEG image files, the “Album” display appears. Then you can skip step 2.

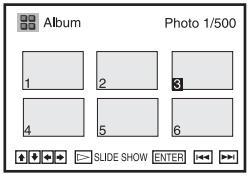


2

Press ↑/↓ to select “JPEG”, then press ENTER.

The “Album” display will appears.

If you do not press ENTER after selecting a media type, the selected media will be automatically played.

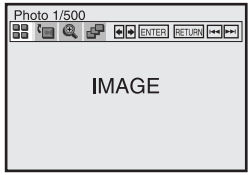


3 Press I◄◄ /►►I to select the next/previous album page, then press ↑/↓/←/→ to select an image in the "Album" display.

To display the selected image

1 Press ENTER.
The selected image number appears in the display window.

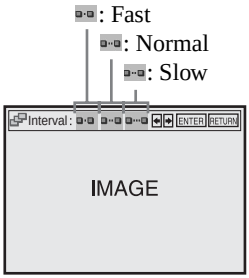
2 To display the next/previous image, press I◄◄ /►►I.



To play the Slide show

1 Press ▷.
You can also play the Slide show using the menu on the selected image.
For details, see "To enjoy the Slide show" on page 84.

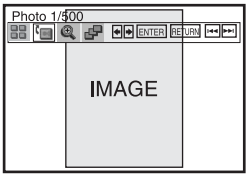
2 Press ←/→ to select the desired playing speed on the "Interval" menu, then press ENTER.
Slide show starts from the selected image.



To rotate the selected image

1 Press ↑/↓/←/→ to select an image in the "Album" display, then press ENTER.

2 Press ←/→ to select " ", then press ENTER.
Each time you press ENTER, the image turns clockwise by 90°.



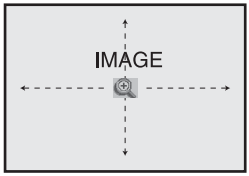
To zoom in an image

1 Press ↑/↓/←/→ to select an image in the "Album" display, then press ENTER.

2 Press ←/→ to select " ", then press ENTER.
" " appears.

3 Press ↑/↓/←/→ to move " " to the position where you want to zoom in.

4 Press ENTER repeatedly to change the magnification. Each time you press ENTER, the magnification changes as shown below.
2× ⟶ normal magnification



continued

To enjoy the Slide show

1 Press ↑/↓/←/→ to select an image in the “Album” display, then press ENTER.
2 Press ←/→ to select “ ”, then press ENTER.
The “Interval” menu appears.
3 Press ←/→ to select the desired playing speed, then press ENTER.
Slide show starts.

To turn on/off the menu in the single image display

Press DISPLAY in the single image display.

To return to the “Album” display

Press DISPLAY to turn on the menu and press ←/→ to select “ ”, then press ENTER. You can also use MENU button to return to the “Album” display. Press ⏮ repeatedly to return to the first “Album” page.

To return to the “Select a Media Type” menu

Press ■ twice, then press TOP MENU.

Notes

- Slide show can play in only one direction.
- You cannot rotate or zoom in the image during Slide show.
- If you select “ ” in the rotated image display, the images in the “Album” display will also be rotated. Correct the rotation in the single image display.

About JPEG image files

You can play JPEG image files on CD-ROMs, CD-Rs, or CD-RWs. However, the discs must be recorded according to ISO9660 level 1, level 2, or Joliet format for the player to recognize the files.
You can also play discs recorded in Multi Session.
See the instructions of the CD-R/RW device or recording software (not supplied) for details on the recording format.

To play a Multi Session CD

This player can play Multi Session CDs when an JPEG image file is located in the first session. Any subsequent JPEG image files, recorded in the later sessions, can also be played back. When audio tracks and images in music CD format or video CD format are recorded in the first session, only the first session will be played back.

Tip

- If you add numbers (01, 02, 03, etc.) to the front of the file names, the files will be played in that order.

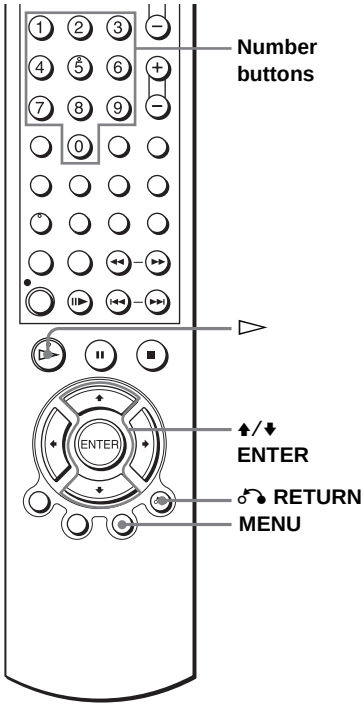
Notes

- The system can play the extension ".JPG" or ".JPEG".
- Some CD-Rs or CD-RWs cannot be played on this system depending on file format.
- If you add the extension ".JPG" or ".JPEG" to data not in JPEG format, the display will be blank.
- Depending on the disc or the size of image files, playback may take some time to start.

Playing VIDEO CDs with “MENU ON/OFF” functions VCD

The PBC (Playback control) function allows you to search and perform other operations interactively. PBC playback follows a selection menu displayed on your TV screen.

The “MENU ON” function is the PBC function.



1 Start playing a VIDEO CD with “MENU ON”.

The menu for your selection appears.

2

Press ↑/↓ to select the item number you want.

You can also use the number buttons to select the item number and track.

3

Press ENTER.

4 Follow the instructions in the menu for interactive operations.

Refer to the instructions supplied with the disc, as the operating procedure may differ depending on the VIDEO CD.

To return to the menu

Press ↩ RETURN.

To play using “MENU OFF”

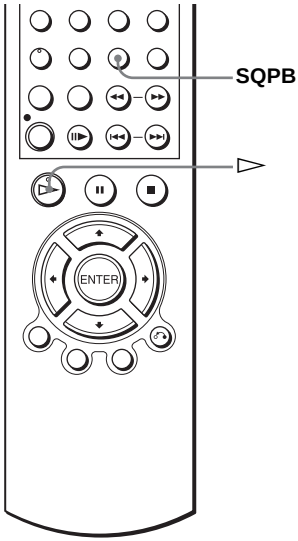
Press MENU to select “MENU OFF”.
When “MENU OFF” is selected, the DVD player starts continuous play. You cannot play still pictures such as a menu.
To return to “MENU ON”, press MENU to select “MENU ON”.

Tip

- Depending on the VIDEO CD, “Press ENTER” in step 3 may appear as “Press SELECT” in the instructions supplied with the disc. In this case, press ▷.

Playing a tape with SQPB function VHS

The SQPB (Super VHS Quasi Playback) function is only for playing a Super VHS format tape.



1 Insert a Super VHS format tape.

2 Press ▷.

3 ANGLE/ SQPB

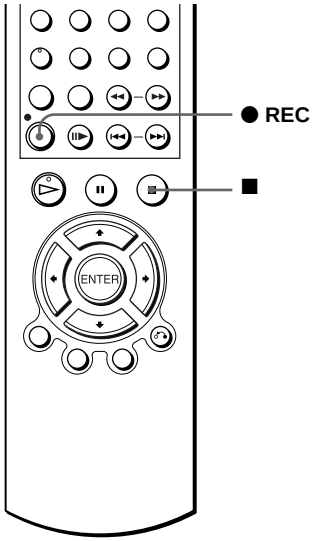
Press SQPB to start SQPB.

Notes

- You cannot use the SQPB function for recording.
- The playback display will be distorted if you use the SQPB function with a normal VHS format tape.
- When you eject the tape, the VCR automatically returns to normal mode.
- Playback of tapes recorded in EP (Extended Play) mode on an NTSC system is not guaranteed.

Quick Timer Recording VHS

After you have started recording, you can have the VCR stop recording automatically after a specified duration.



1 ●REC

While recording, press ● REC.

2 ●REC

Press ● REC repeatedly to set the duration time.

In SP mode

Each press advances the time in increments of 30 minutes.

0:30 → 1:00 - - - - → 4:00 → 4:30 → **Normal recording**

In LP mode

Each press advances the time as shown below.

0:30 → 1:00 - - - - → 8:00 → 9:00 → **Normal recording**

The tape counter decreases minute by minute to 0:00, then the VCR stops recording.

continued

To extend the duration

Press ● REC repeatedly to set a new duration time.

To cancel the duration

Press ● REC repeatedly until the ◴ indicator disappears and the VCR returns to normal recording mode.

To stop while recording

Press ■.

Note

- You cannot display the current tape time in the display window when setting the recording duration time.

Recording stereo and bilingual programmes VHS

In the ZWEITON (German stereo) system

This VCR automatically receives and records stereo and bilingual programmes based on the ZWEITON system. When a stereo or bilingual programme is received, the STEREO indicator appears in the display window.

To select bilingual sound while recording

Press AUDIO to select the sound you want.

To listen to	On-screen display	Display window
Main	MAIN	STEREO
Sub	SUB	STEREO
Main and sub	MAIN/SUB	STEREO
Standard sound*	MONO	STEREO

* Usually the main channel heard from both the left and right in bilingual programmes

To select stereo programme while recording

To listen to	On-screen display	Display window
Stereo	STEREO	STEREO
Left channel	LCH	STEREO
Right channel	RCH	STEREO
Standard sound*	LCH + RCH	STEREO

* Usually the mixed sound of left and right channels in stereo programmes

In the NICAM system

This VCR receives and records stereo and bilingual programmes based on the NICAM system (NICAM appears on the TV screen). When a stereo or bilingual programme is received, the STEREO indicator appears in the display window.

To record a NICAM programme, “NICAM” in the “USER SET” menu should be set to “On” (initial setting). To check the menu setting, see page 103 for details.

continued

To select the sound while recording

Press AUDIO to select the sound you want.

Stereo programmes

To listen to	On-screen display	Display window
Stereo	NICAM, STEREO	STEREO
Left channel	NICAM, LCH	STEREO
Right channel	NICAM, RCH	STEREO
Left and right channels*	NICAM, LCH + RCH	STEREO

* Usually the mixed sound of left and right channels

Bilingual programmes

To listen to	On-screen display	Display window
Main	NICAM, MAIN	STEREO
Sub	NICAM, SUB	STEREO
Main and sub	NICAM, MAIN/SUB	STEREO
Standard sound*	NICAM, MONO	STEREO

* Usually the main sound (monaural)

Selecting the sound during Hi-fi playback

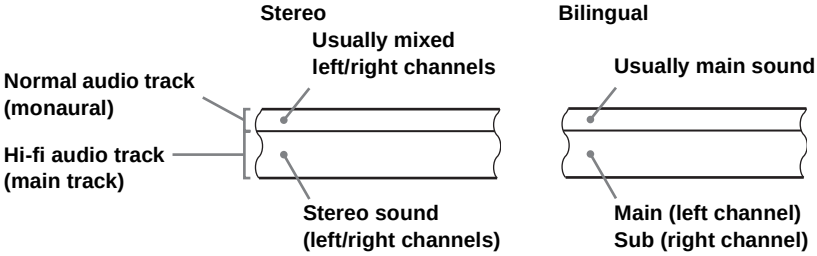
Press AUDIO to select the sound you want.

To listen to	On-screen display	Display window
Stereo	STEREO	STEREO
Left channel	LCH	STEREO
Right channel	RCH	STEREO
Mix sound*	MIX	STEREO
Mono sound	MONO	No indicator

* The mixed sound of left and right channels, and the normal mono audio track

How sound is recorded on a video tape

The VCR records sound onto two separate tracks. Hi-fi audio is recorded onto the main track along with the picture. Monaural sound is recorded onto the normal audio track along the edge of the tape.

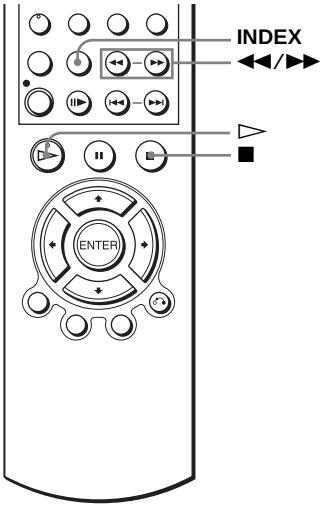


Notes

- To listen to playback sounds in stereo, you must use the Scart or AUDIO OUT connections.
- When you play a tape recorded in monaural, the sound is heard in monaural regardless of the AUDIO setting.

Searching using index function VHS

The VCR automatically marks the tape with an index signal at the point where each recording begins. Use these signals as references to find a specific recording.



To find a specific recording by scanning (Index scan)

1 Insert an indexed tape into the tape compartment.

2 Press INDEX, then press ◀◀/▶▶. The VCR starts scanning each recording for five seconds in the corresponding direction.

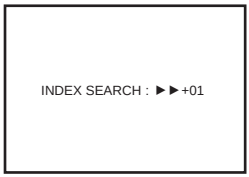
3 Press ▷ to start playback when you find the desired point.

To search a specific recording (Index search)

1 Insert an indexed tape into the VCR.

2 Press INDEX, then press ◀◀/▶▶ twice.

- To search ahead, press ▶▶ twice.
- To search backwards, press ◀◀ twice.



3 Press ◀◀/▶▶ depending on the direction where your desired programme is located.

Each time you press the button, the number increases or decreases up to ±20, respectively.

4 The VCR starts searching, and playback starts automatically from that point.

To stop searching

Press ■.

Note

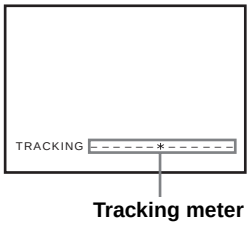
- No index signal will be added when recording starts from recording pause. However, an index signal will be marked if you change the programme position during recording pause.

Adjusting the picture (tracking) VHS

Adjusting the tracking

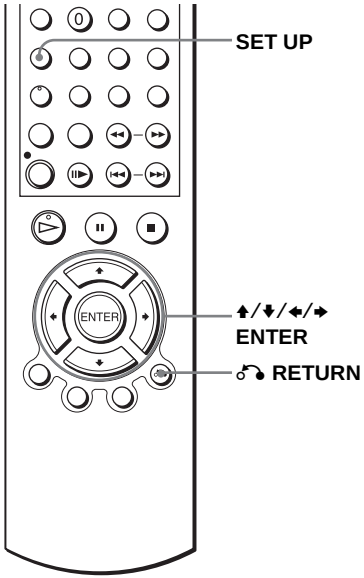
Although the VCR automatically adjusts the tracking when playing a tape, distortion may occur if the recording is in poor condition. In this case, manually adjust the tracking.

During playback, press TRACKING +/– to display the tracking meter. The distortion should disappear as you press one of the two buttons. To resume automatic tracking adjustments, eject the tape and re-insert it.



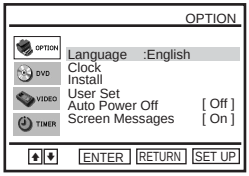
Adjusting the picture sharpness (Smart trilogic)

You can automatically adjust the sharpness of the picture.

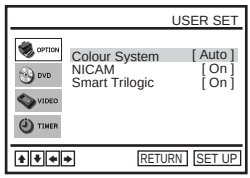


1 SET UP

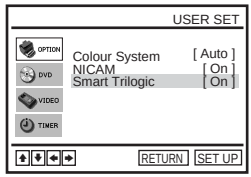
During playback, press SET UP, then press ↑/↓ to select (OPTION) and press ENTER.



2 Press ↑/↓ to select “User Set”, then press ENTER.



3 Press ↑/↓ to select “Smart Trilogic”, then press →.

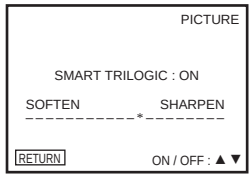


4 Press ↑/↓ to set “SMART TRILOGIC” to “ON” or “OFF”.

- ON: Picture sharpness is automatically adjusted.
- OFF: Adjust the picture sharpness manually.

  To soften the picture, press ←.

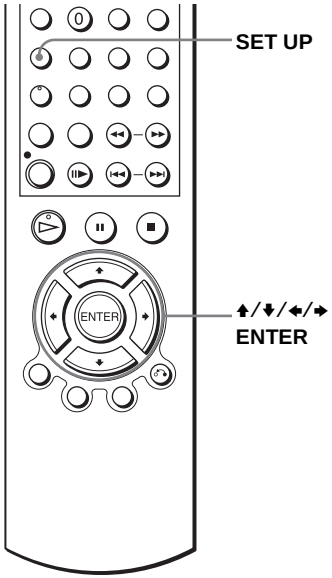
  To sharpen the picture, press →.



5 Press ↩ RETURN to return to the original screen.

RETURN

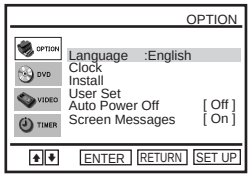
Changing menu options VHS

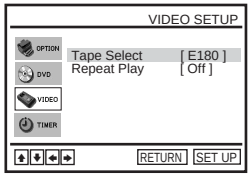


1

SET UP

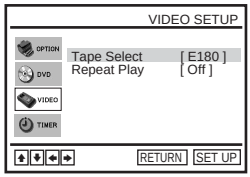
Press SET UP when the DVD player is in stop mode, then press ↑/↓ to select (OPTION) or (VIDEO) and press ENTER.





2

Press ↑/↓ to select the option to change.



3

Press ←/→ to change the setting.

4 SET UP

Press SET UP to exit the menu.

Menu choices

The default settings are indicated in bold print.

OPTION

Menu option	Set this option to
Auto Power Off	• "**Off**" to deactivate the Auto Power Off function. • "1Hour"/"2Hours"/"3Hours" to turn the DVD-VCR off automatically if no signal is received and you do not press any of the buttons during this time.
Screen Messages	• "**On**" to display the menu on the TV screen. • "Off" to disappear the menu from the TV screen.

VIDEO SETUP

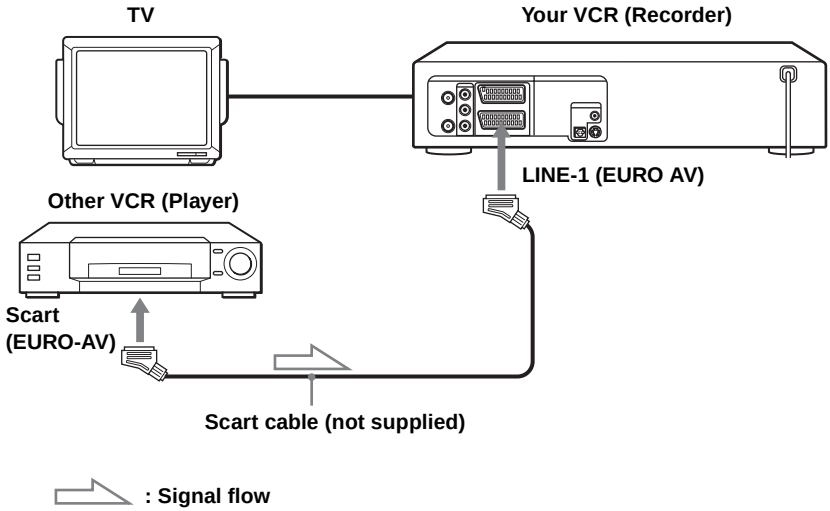
Menu option	Set this option to
Tape Select	• "**E180**" to use an E-180 or shorter type tape. • "E240" to use an E-240 type tape. • "E260" to use an E-260 type tape. • "E300" to use an E-300 type tape.
Repeat Play	• "On" to play back a tape repeatedly. The VCR rewinds a tape to the beginning and restarts playback automatically. • "**Off**" to turn off Auto repeat.

Editing VHS

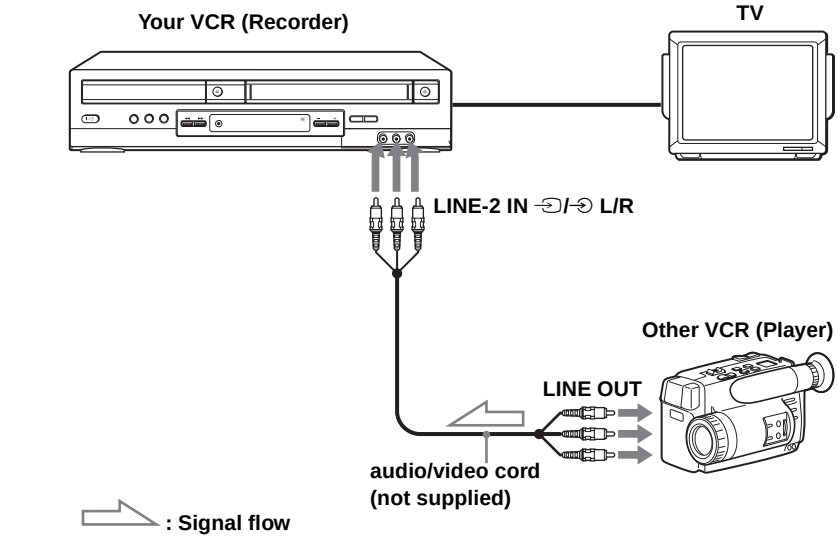
How to connect to record on this VCR

Connect the line outputs of the other VCR to the input connector of this VCR. Refer to the examples A through C and choose the connection that best suits your VCR.

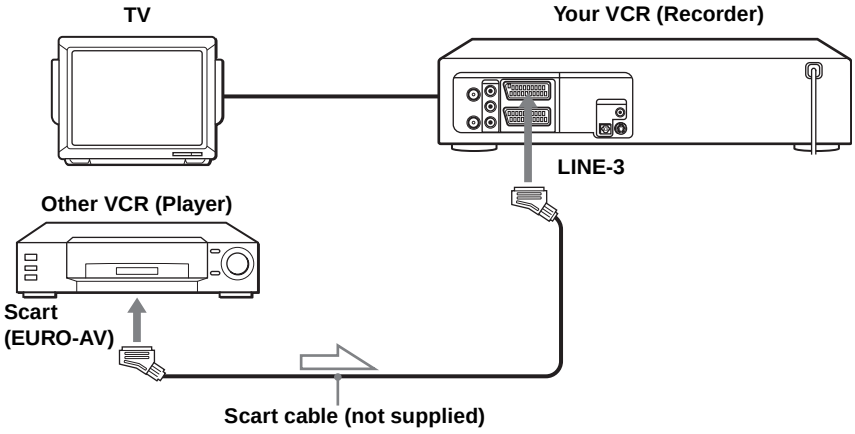
Example A



Example B



Example C



How to connect to a stereo system

Connect the LINE-2 IN ⇒/⇒ L/R jacks on this DVD-VCR to the audio output jacks on the stereo system, using an audio cable (not supplied).

Notes

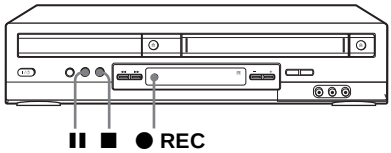
- Make sure you connect the plugs to jacks of the same colour.
- If the other VCR is a monaural type, leave the red plugs unconnected.
- If you connect this VCR to both the LINE IN and LINE OUT jacks of the other VCR, select the input correctly to prevent a humming noise.
- When you connect another VCR to the LINE-3 or LINE-2 connector, press INPUT SELECT to display “L3” or “L2” in the display window.

continued

Operation (when recording on this VCR)

Before you start editing

- Turn on your TV and set it to the video channel.
- Press INPUT SELECT to display the connected line in the display window.
- Press SP/LP to select the tape speed, SP or LP.
- Press SELECT VIDEO to control the VCR.



1 Insert a source tape with its safety tab removed into the other (playback) VCR. Search for the point to start playback and set it to playback pause.

2 ❚❚ Insert a tape with its safety tab in place into this (recording) VCR. Search for the point to start recording and press ❚❚ to set it to playback pause.

3 ●REC Press ● REC on this VCR to set it to recording pause.

4 ❚❚ To start editing, press the ❚❚ (pause) buttons on both VCRs at the same time.

To stop editing

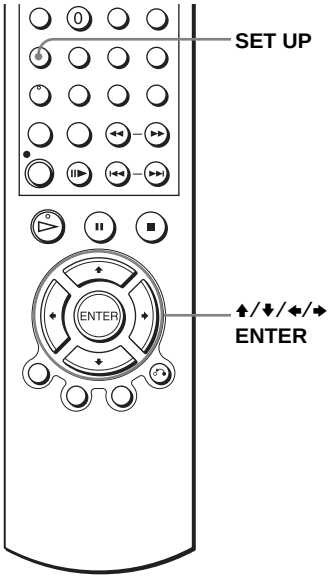
Press the ■ (stop) buttons on both VCRs.

Tip

- To cut out unwanted scenes while editing, press ❚❚ on this VCR when an unwanted scene begins. When it ends, press ❚❚ again to resume recording.

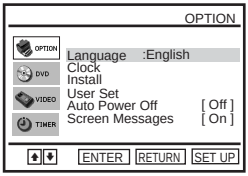
General setup information

Changing setup options



1 SET UP

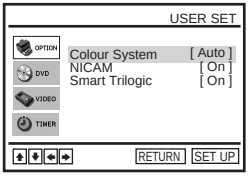
Press SET UP when the DVD player is in stop mode, then press ↑/↓ to select (OPTION) and press ENTER.



2

Press ↑/↓ to select “User Set”, then press ENTER.

The “USER SET” menu appears.



3

Press ↑/↓ to select the option to change.

continued

4

Press ←/→ to change the setting.

5 SET UP

Press SET UP to exit the menu.

Menu choices

Initial settings are indicated in bold print.

Menu option	Set this option to
Colour System	• "**Auto**" to set the colour system automatically. • "PAL" to play back a tape recorded in the PAL colour system. • "MESECAM" to play back a tape recorded in the MESECAM colour system. When using the tape recorded NTSC colour signals: • "**NTPB**" to play back an NTSC-recorded tape on PAL TV. • "NT4.43" to play back an NTSC-recorded tape on Multi TV. If you press ⏏ or turn the DVD-VCR off, "Colour System" will be reset to "Auto".
NICAM	• "**On**" to record NICAM broadcasts on the hi-fi audio track. • "Off" to record standard sound on the hi-fi audio track. For details, see page 91.
Smart Trilogic	• "**On**" to automatically adjust the sharpness of the picture. • "Off" to manually adjust the sharpness of the picture.

Troubleshooting

If you have any questions or problems not covered below, please consult your nearest Sony service facility.

General Troubleshooting

	Symptom	Remedy
Power	The I/⏻ (on/standby) switch does not function.	• Connect the mains lead to the mains securely.
	The power is turned on but the DVD-VCR does not operate.	• Moisture condensation has occurred. Turn the power off, unplug the mains lead and leave the DVD-VCR to dry for over three hours.
Clock	The clock has stopped and "--:--" appears in the display window.	• The clock stops if the DVD-VCR is disconnected from the mains. Reset the clock (and timer).
Others	The remote commander does not function.	• Make sure you are pointing the remote commander at the remote sensor on the DVD-VCR. • Replace all the batteries in the remote commander with new ones if they are weak. • Make sure the TV / DVD·VIDEO switch is set correctly. • Select correctly VIDEO or DVD with the SELECT DVD/VIDEO button.
	The tracking meter does not appear on the screen.	• The recording condition of the tape is very poor and tracking cannot be adjusted.
	You cannot control other TVs.	• Set your TV's code number. The code number may change when you replace the batteries of the remote commander.

DVD Troubleshooting

	Symptom	Remedy
Picture	There is no picture/picture noise appears.	• Re-connect the connecting cord securely. • The connecting cords are damaged. • Check the connection to your TV (page 11) and switch the input selector on your TV so that the signal from the player appears on the TV screen. • The disc is dirty or flawed. • If the picture output from your player goes through your VCR to get to your TV or if you are connected to a combination TV/VIDEO player, the copy-protection signal applied to some DVD programmes could affect picture quality. If you still experience problems even when you connect your player directly to your TV, please try connecting your player to your TV's S-VIDEO input (page 54).

continued

	Symptom	Remedy
Picture	Even though you set the aspect ratio in “TV Type” of the “SCREEN SETUP” menu the picture does not fill the screen.	• The aspect ratio of the disc is fixed on your DVD.
	There is no picture from your VCR connected to the LINE IN jacks.	• The DVD player must be in standby mode to view pictures from your VCR.
Sound	There is no sound.	• Re-connect the connecting cord securely. • The connecting cord is damaged. • The player is connected to the wrong input jack on the amplifier (receiver) (page 52). • The amplifier (receiver) input is not correctly set. • The player is in pause mode or in Slow-motion Play mode. • The player is in fast forward or fast reverse mode. • If the audio signal does not come through the DIGITAL AUDIO OUT (OPTICAL or COAXIAL) jack, check the audio settings (pages 55).
	Sound is noisy.	• When playing a CD with DTS sound tracks, noise will come from the OUT AUDIO L/R jacks (page 35) or DIGITAL OUT (OPTICAL or COAXIAL) jack.
	The sound volume is low.	• The sound volume is low on some DVDs. The sound volume may improve if you set “Audio DRC” to “TV” (page 57).
Operation	The disc does not play.	• The disc is turned over. • Insert the disc with the playback side facing down on the disc tray. • The disc is skewed. • The player cannot play certain discs (page 6). • The region code on the DVD does not match the player. • Moisture has condensed inside the player. • The player cannot play CD-Rs, CD-RWs, DVD-Rs or DVD-RWs that are not finalized (page 7). • Make sure the TV / DVD·VIDEO switch is set correctly. • Select correctly VIDEO or DVD with SELECT DVD/ VIDEO button.
	The MP3 audio track cannot be played (page 78).	• The DATA CD is not recorded in the MP3 format that conforms to ISO9660 Level 1/Level 2 or Joliet. • The MP3 audio track does not have the extension “.MP3”. • The data is not formatted in MP3 even though it has the extension “.MP3”. • The data is not MPEG1 Audio Layer 3 data. • The player cannot play audio tracks in MP3PRO format.
	The JPEG image file cannot be played.	• The DATA CD is not recorded in JPEG format that conforms to ISO9660 Level 1/Level 2 or Joliet. • The JPEG image file does not have the extension “.JPG” or “.JPEG”. • The data is not formatted in JPEG even though it has the extension “.JPG” or “.JPEG”. • Length or width of the image is more than 4720 dots.

	Symptom	Remedy
Operation	The title of the MP3 audio album or track is not correctly displayed.	• The player can only display numbers and alphabet. Other characters are displayed as asterisks.
	The disc does not start playing from the beginning.	• Programme play, shuffle play, or repeat play, has been selected (pages 71, 73, 74). • Resume play has taken effect (page 34).
	The player starts playing the disc automatically.	• The disc features an auto playback function.
	Playback stops automatically.	• While playing discs with an auto pause signal, the player stops playback at the auto pause signal.
	You cannot perform some functions such as stop, search, slow-motion play, repeat play, shuffle play, or programme play.	• Depending on the disc, you may not be able to do some operations. See the operating manual that comes with the disc.
	The language for the sound track cannot be changed.	• Try using the DVD's menu instead of the direct selection button on the remote (page 66). • Multilingual tracks are not recorded on the DVD being played. • The DVD prohibits the changing of the language for the sound track.
	The subtitle language cannot be changed or turned off.	• Try using the DVD's menu instead of the direct selection button on the remote (page 66). • Multilingual subtitles are not recorded on the DVD being played. • The DVD prohibits the changing of the subtitles.
	The angles cannot be changed.	• Try using the DVD's menu instead of the direct selection button on the remote (page 66). • Multi-angles are not recorded on the DVD being played. • The DVD prohibits changing of the angles.
	The player does not operate properly.	• When static electricity, etc., causes the player to operate abnormally, unplug the player.

VCR Troubleshooting

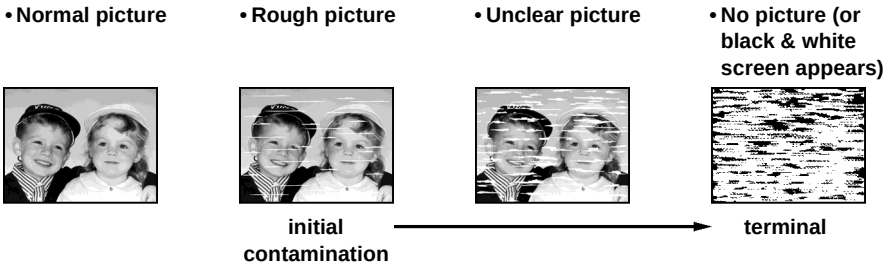
	Symptom	Remedy
Playback	The playback picture does not appear on the TV screen.	• Make sure the TV is set to the channel for the VCR. If you are using a monitor, set it to video input. • If the VCR is connected to the TV with the Scart cable, make sure the VCR indicator is lit in the display window. Use the TV/VIDEO button on the remote commander to light up the VCR indicator.

continued

	Symptom	Remedy
Playback	The picture is not clear.	• Existing broadcasts may interfere with the VCR. Reset the RF channel output of your VCR (page 16). • Adjust the tracking with the TRACKING +/– buttons. • The video heads are dirty (see the last page of Troubleshooting). Clean the video heads using a Sony video head cleaning cassette. If a Sony cleaning cassette is not available in your area, have the heads cleaned at your nearest Sony service facility (a standard service charge will be required). Do not use a commercially available liquid type cleaning cassette other than Sony's, as it may damage the video heads. • The video heads may have to be replaced. Consult your local Sony service facility for more information.
	The picture has no colour.	• The "Colour System" option in the "USER SET" menu is set to the wrong position. Set the option to conform to the system that the tape was recorded in.
	The picture rolls vertically during picture search.	• Adjust the vertical hold control on the TV or monitor.
	The picture has no sound.	• The tape is defective. • If you made A/V connections, check the audio cord connection.
	The sound from a tape recorded with the VCR is not in stereo or the STEREO indicator in the display window is flashing.	• Adjust the tracking. • The video heads are dirty. Clean the video heads using a Sony video head cleaning cassette as explained above.
Recording	No TV programme appears on the TV screen.	• Make sure the TV is set to the video channel. If you are using a monitor, set it to video input. • Existing broadcasts may interfere with the VCR. Reset the RF channel output of your VCR (page 16). • Select the correct source with the INPUT SELECT button. Select a programme position when recording TV programmes; select a line input when recording from other equipment.
	TV reception is poor.	• Make sure the aerial cable is connected securely. • Adjust the TV aerial. • Make sure the TV system is correctly set for your TV. • Make sure "TV System (B/G or D/K)" in the "INSTALL" menu is set to the same system in your local area.
	The tape starts playing as soon as it is inserted.	• The safety tab has been removed. To record on this tape, cover the tab hole.
	The tape is ejected when you press ● REC.	• The safety tab has been removed. To record on this tape, cover the tab hole.
	Nothing happens when you press ● REC.	• Make sure the tape is not at its end.

	Symptom	Remedy
Timer recording	The timer does not operate.	• Check that the clock is set. • Make sure a tape has been inserted. • Check that the safety tab has not been removed. • Make sure the tape is not at its end. • Make sure a programme has been set for timer recording. • Make sure your timer settings are past the current time. • Check that the decoder is turned on. • Check that the satellite tuner is turned on. • The clock stops if the DVD-VCR is disconnected from the mains for more than one minute. Reset the clock and timer. • Turn the power off and unplug the mains lead.
	The VPS/PDC function does not operate properly.	• Check that the clock and the date are set correctly. • Check that the VPS/PDC time you set is the correct one (there might be a mistake in the TV programme guide). If the broadcast you wanted to record did not send the good VPS/PDC information, the VCR will not start recording. • If the reception is poor, the VPS/PDC signal might be altered and the VCR might not start recording.
PAY-TV/Canal Plus	You cannot watch PAY-TV/Canal Plus programmes when the VCR is in standby mode.	• Check that “DEC” is set to “ON” for this channel in the “TV STATION TABLE” menu. • Make sure the PAY-TV/Canal Plus Scart cable is plugged securely.
	A PAY-TV/Canal Plus programme is always recorded scrambled.	• Make sure the PAY-TV/Canal Plus Scart cable is plugged securely. • Check that “DEC” is set to “ON” for this channel in the “TV STATION TABLE” menu.
Others	A tape cannot be inserted.	• Check that a tape is not already in the tape compartment.
	The selected input line connector number does not appear in the display window.	• Press INPUT SELECT to display the connected line.
	The VCR mechanism needs to be cleaned.	• Clean the cabinet, panel and controls with a dry, soft cloth, or a soft cloth slightly moistened with a mild detergent solution. Do not use any type of solvent, such as alcohol or benzine.

Symptoms caused by contaminated video heads



Glossary

Chapter (page 37)

Sections of a picture or a music feature that are smaller than titles. A title is composed of several chapters. Depending on the disc, no chapters may be recorded.

Dolby Digital (pages 53 and 56)

Digital audio compression technology developed by Dolby Laboratories. This technology conforms to 5.1-channel surround sound. The rear channel is stereo and there is a discrete subwoofer channel in this format. Dolby Digital provides the same 5.1 discrete channels of high quality digital audio found in Dolby Digital cinema audio systems. Good channel separation is realized because all of the channel data are recorded discretely and little deterioration is realized because all channel data processing is digital.

Dolby Surround (Pro Logic) (page 52)

Audio signal processing technology that Dolby Laboratories developed for surround sound. When the input signal contains a surround component, the Pro Logic process outputs the front, centre and rear signals. The rear channel is monaural.

DTS (page 56)

Digital audio compression technology that Digital Theater Systems, Inc. developed. This technology conforms to 5.1-channel surround sound. The rear channel is stereo and there is a discrete subwoofer channel in this format. DTS provides the same 5.1 discrete channels of high quality digital audio.
Good channel separation is realized because all of the channel data is recorded discretely and little deterioration is realized because all channel data processing is digital.

DVD (page 6)

A disc that contains up to 8 hours of moving pictures even though its diameter is the same as a CD.

The data capacity of a single-layer and single-sided DVD is 4.7 GB (Giga Byte), which is 7 times that of a CD. The data capacity of a double-layer and single-sided DVD is 8.5 GB, a single-layer and double-sided DVD is 9.4 GB, and double-layer and double-sided DVD is 17 GB.
The picture data uses the MPEG 2 format, one of the worldwide standards of digital compression technology. The picture data is compressed to about 1/40 (average) of its original size. The DVD also uses a variable rate coding technology that changes the data to be allocated according to the status of the picture. Audio information is recorded in a multi-channel format, such as Dolby Digital, allowing you to enjoy a more real audio presence.
Furthermore, various advanced functions such as the multi-angle, multilingual, and Parental Control functions are provided with the DVD.

DVD-RW (page 6)

A DVD-RW is a recordable and rewritable disc that is the same size as a DVD VIDEO. The DVD-RW has two different modes: VR mode and Video mode. DVD-RWs created in Video mode have the same format as a DVD VIDEO, while discs created in VR (Video Recording) mode allow the contents to be programmed or edited.

DVD+RW (page 6)

A DVD+RW (plus RW) is a recordable and rewritable disc. DVD+RWs use a recording format that is comparable to the DVD VIDEO format.

Title (page 37)

The longest section of a picture or music feature on a DVD, movie, etc., in video software, or the entire album in audio software.

Track (page 37)

Sections of a picture or a music feature on a CD or VIDEO CD (the length of a song).

Specifications

System

Laser
Semiconductor laser
Signal format system
PAL/(NTSC)
MESECAM
Channel coverage
PAL (B/G, D/K)
VHF E2 to E12, R1–R12
UHF E21 to E69, R21–R69
CATV S01 to S05, S1 to S41
RF output signal
UHF channels 21 to 69
Aerial out
75-ohm asymmetrical aerial socket
Tape speed
SP: PAL/MESECAM 23.39 mm/s (recording/playback)
NTSC 33.35 mm/s (playback only)
LP: PAL/MESECAM 11.70 mm/s (recording/playback)
NTSC 16.67 mm/s (playback only)
EP: NTSC 11.12 mm/s (playback only)
Maximum recording/playback time
10 hrs. in LP mode (with E300 tape)
Rewind time
Approx. 1 min. (with E180 tape)

Inputs and outputs

LINE-1 (EURO AV)
21-pin
Video input: pin 20
Audio input: pins 2 and 6
Video output: pin 19
Audio output: pins 1 and 3
LINE-2 IN ⇨/⇦ L/R
VIDEO IN, phono jack (1)
Input signal: 1 Vp-p, 75 ohms, unbalanced, sync negative
AUDIO IN, phono jacks (2)
Input level: 327 mVrms
Input impedance: more than 47 kilohms
LINE-3
21-pin
Video input: pin 20
Audio input: pins 2 and 6
OUT
VIDEO OUT, phono jack (1)
Output signal: 1 Vp-p, 75 ohms, unbalanced, sync negative
AUDIO OUT, phono jacks (2)
Standard output: 327 mVrms
Load impedance: 47 kilohms
Output impedance: less than 10 kilohms
DIGITAL OUT (OPTICAL)
Optical output jack/–18 dBm (wave length 660 nm)
DIGITAL OUT (COAXIAL)
Phono jack/0.5 Vp-p/75 ohms
S-VIDEO OUT
4-pin mini DIN/Y: 1.0 Vp-p, C: 0.3 Vp-p (PAL), 0.286 Vp-p (NTSC)/75 ohms

Timer section

Clock
Quartz locked
Timer indication
24-hour cycle
Timer setting
6 programs (max.)

General

Power requirements
    220 – 240 V AC, 50 Hz
Power consumption
    25 W
Operating temperature
    5° C to 40° C
Storage temperature
    –20° C to 60° C
Dimensions including projecting parts and controls (w/h/d)
    Approx. 430 × 95 × 325 mm
Mass
    Approx. 4.2 kg

Supplied accessories

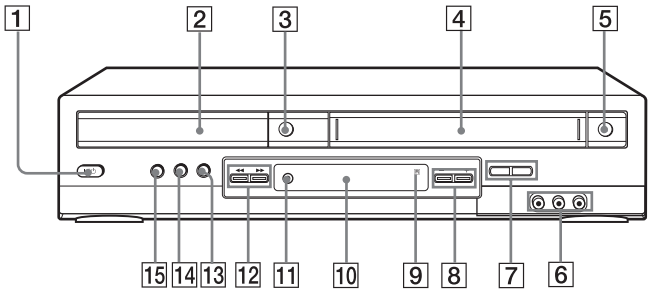
Remote commander (1)
R6 (size AA) batteries (2)
Aerial cable (1)
Audio cord (pinplug ×2 ⟷ pinplug ×2) (1)
Video cord (pinplug ×1 ⟷ pinplug ×1) (1)

Design and specifications are subject to change without notice.

Index to parts and controls

Refer to the pages indicated in parentheses ( ) for details.

Front panel



1 I/⏻ (on/standby) switch (10) (40)

2 Disc tray (33)

3 ⏏ (open/close) button (33) (34)

4 Tape compartment (39)

5 ⏏ (eject) button (40)

6 LINE-2 IN ⇦/⇨ L/R jacks*1 (100)

7 SELECT DVD/VIDEO (9)

8 PROGRAM +/– buttons*2 (43)

9 Remote sensor (9)

10 Display window (34) (39)

11 ● REC (record) button (43)

12 ◀◀ (rewind)/▶▶ (fast-forward) buttons (35) (40)

13 ■ (stop) button (34) (40)

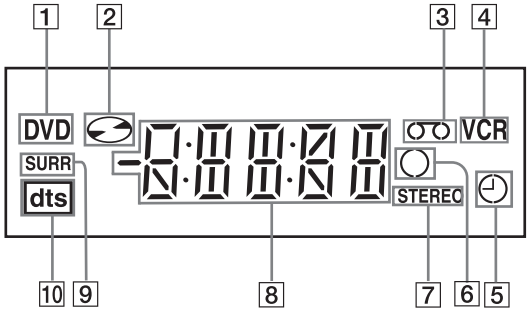
14 ❚❚ (pause) button (34) (40)

15 ▷ (play) button (34) (39)

*1 Covered

*2 PROGRAM + button has a tactile dot. Use the tactile dot as a reference when operating the DVD-VCR.

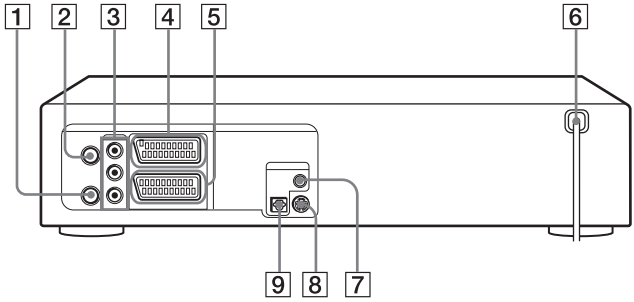
Display window



1 DVD indicator (34)
2 Disc indicator (34)
3 Tape indicator (39)
4 VCR indicator (39)
5 Timer indicator
6 Recording indicator (43)
7 STEREO indicator (91)
8 Playing time/clock/current status indicator (34)
9 SURR (surround) indicator (76)
10 DTS indicator (56)

continued

Rear panel



DVD player and VCR

1 (out to tv) connector (11)

2 (in from aerial) connector (11)

3 OUT VIDEO/AUDIO L/R jacks (52)

4 LINE-3 connector (13)

5 LINE-1 (EURO AV) connector (12)

DVD player only

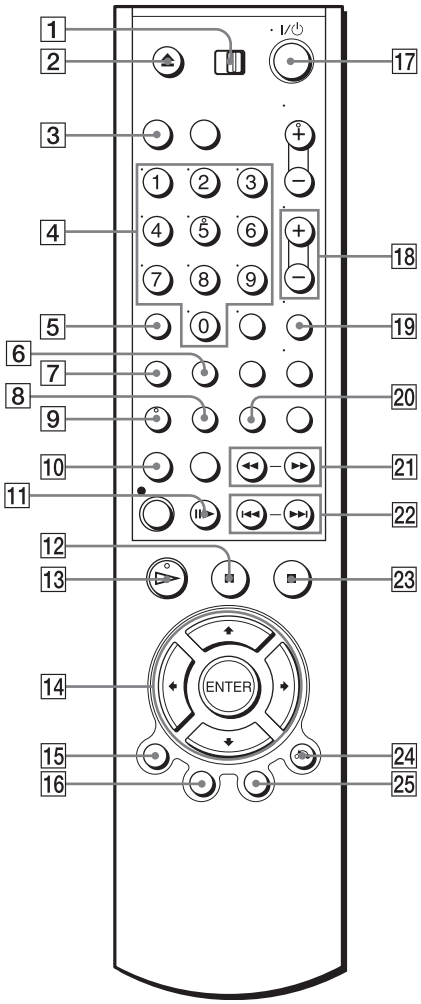
6 Mains lead (11)

7 DIGITAL AUDIO OUT jack (COAXIAL) (53)

8 S-VIDEO OUT jack (54)

9 DIGITAL AUDIO OUT jack (OPTICAL) (53)

Remote commander for DVD

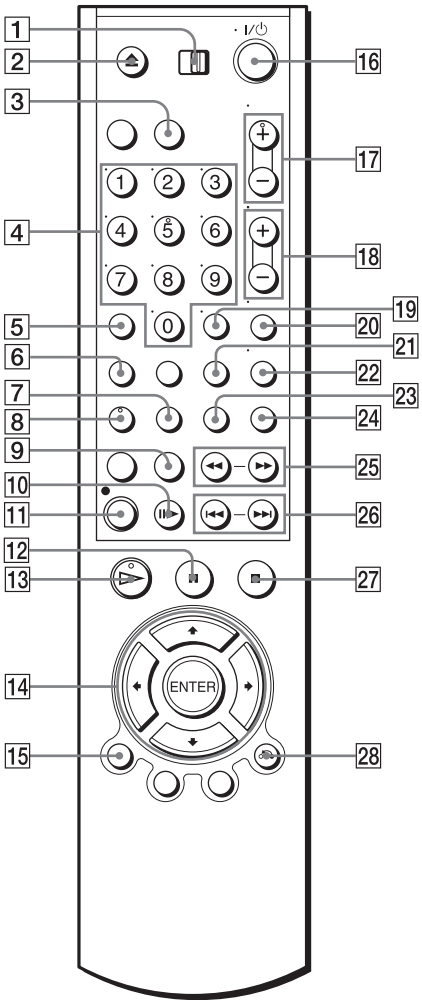


1 TV / DVD•VIDEO switch (9)
2 ⏏ (open/close) button (33) (34)
3 SELECT DVD button (9)
4 Number buttons* (10) (64)
5 CLEAR button (72)
6 SURROUND button (76)
7 SET UP button (16)
8 SUBTITLE button (70)
9 AUDIO button* (75)
10 REPEAT/PROGRAM button (71) (74)
11 II► STEP button (34)
12 II (pause) button (34)
13 ▷ (play) button* (34)
14 ↑/↓/←/→ buttons
ENTER button (15)
15 DISPLAY button (37) (43)
16 TOP MENU button (66)
17 I/⏻ (on/standby) switch (10)
18 VOL (volume) +/– buttons (10)
19 ZOOM button (68)
20 ANGLE button (69)
21 ◄◄/►► SCAN/SLOW I► buttons (34)
22 I◄◄ /►►I PREV/NEXT buttons (34)
23 ■ (stop) button (34)
24 ↩ RETURN button (24)
25 MENU button (66)

* Number 5, AUDIO and ▷ buttons have a tactile dot. Use the tactile dot as a reference when operating the DVD-VCR.

continued

Remote commander for VCR



1 TV / DVD•VIDEO switch (9)

2 ⏏ (eject) button (40)

3 SELECT VIDEO button (9)

4 Number buttons* (10)

5 CLEAR button (27)

6 SET UP button (16)

7 TIMER button (46)

8 AUDIO button* (91)

9 INDEX button (94)

10 II► STEP button (40)

11 ● REC (record) button (43)

12 ❚❚ (pause) button (40)

13 ▷ (play) button* (39)

14 ↑/↓/←/→ buttons
ENTER button (15)

15 DISPLAY button (43)

16 I/⏻ (on/standby) switch (10) (40)

17 PROG (programme)/TRACKING +/– buttons* (41) (43)

18 VOL (volume) +/– buttons (10)

19 -/-- (ten's digit) button (10)

20 MUTING button (10)

21 SP (Standard Play)/LP (Long Play) button (43)

22 TV/VIDEO button (44)

23 SQPB button (88)

24 INPUT SELECT button (43)

25 ◀◀ (rewind)/▶▶ (fast-forward) buttons
SLOW ❚► button (40)

26 I◀◀ /▶▶I SHUTTLE buttons (40)

27 ■ (stop) button (40)

28 ↩ RETURN button (24)

* Number 5, AUDIO, ▷ and PROG/TRACKING + buttons have a tactile dot. Use the tactile dot as a reference when operating the DVD-VCR.

DVD Audio/Subtitle Language

Abbreviation	Language
ARA	Arabic
CHI	Chinese
CRO	Croatian
CZK	Czech
DAN	Danish
DEU	German
ENG	English
ESP	Spanish
FIN	Finish
FRA	French
GRE	Greek
HUN	Hungarian
IDN	Indonesian
IND	Hindi
ISL	Icelandic
ITA	Italian
IWR	Hebrew
JPN	Japanese
KOR	Korean
MAL	Malay
NLD	Dutch
NOR	Norwegian
POL	Polish
POR	Portuguese
RUS	Russian
SVE	Swedish
THA	Thai
TUR	Turquish
VIE	Vietnamese
ZAF	Afrikaans

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Sony Corporation Printed in Indonesia AK68-00187H